

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111919\
 Data File : VL034381.D
 Acq On : 19 Nov 2019 15:26
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111919

Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 3:53:41 PM

Quant Time: Nov 20 04:26:13 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 2019
 QLast Update : Wed Nov 20 03:30:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1052906	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2194760	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	2296508m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1828162	9.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.60%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.02	85	1707789	8.966	ppbv 98
3) Chlorodifluoromethane	2.96	51	1172530	8.925	ppbv 98
4) Chloromethane	3.11	50	727096	9.383	ppbv 99
5) Vinyl Chloride	3.23	62	655600	9.030	ppbv 96
6) Bromomethane	3.45	94	350445	9.593	ppbv 94
7) Chloroethane	3.54	64	247268	9.384	ppbv 98
8) Dichlorotetrafluoroethane	3.16	85	1489264	8.706	ppbv 98
9) Propene	2.98	41	565901	9.703	ppbv 100
10) Heptane	8.16	43	1434481	9.530	ppbv 99
11) Trichlorofluoromethane	3.93	101	1645490	8.680	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1128337	8.963	ppbv 99
13) Ethanol	3.58	45	125226	7.331	ppbv 97
14) Bromoethene	3.72	108	474893	9.277	ppbv 98
15) Acetone	3.84	43	1301516	8.632	ppbv 100
16) 1,3-Butadiene	3.30	39	617269	9.399	ppbv 100
17) tert-Butyl alcohol	4.28	59	1264088	9.974	ppbv 99
18) 1,1-Dichloroethene	4.28	96	504983	9.170	ppbv 98
19) Isopropyl Alcohol	3.96	45	997085	9.093	ppbv 99
20) Methylene Chloride	4.34	84	444192	8.308	ppbv 98
21) Allyl Chloride	4.40	41	878536	9.724	ppbv 98
22) trans-1,2-Dichloroethene	4.89	96	516835	9.310	ppbv 98
23) Vinyl Acetate	5.08	43	1973335	10.019	ppbv 99
24) 1,1-Dichloroethane	5.01	63	1385221	9.156	ppbv 99
25) Ethyl Acetate	5.69	43	2451419	9.112	ppbv 99
26) Hexane	5.70	57	1059444	9.164	ppbv 99
27) Carbon Disulfide	4.54	76	1301637	10.337	ppbv 99
28) Methyl tert-Butyl Ether	5.03	73	1845551	9.627	ppbv 100
29) Chloroform	5.77	83	1681786	8.983	ppbv 94
30) Cyclohexane	7.16	84	867983	9.931	ppbv 99
31) cis-1,2-Dichloroethene	5.56	61	1146269	9.595	ppbv 99
32) 1,1,1-Trichloroethane	6.53	97	1669258	9.510	ppbv 99
34) 2-Butanone	5.25	43	1659314	9.185	ppbv 100
35) Carbon Tetrachloride	7.04	117	1712905	9.077	ppbv 99
36) Benzene	6.92	78	2079075	9.476	ppbv 99
37) 1,2-Dichloroethane	6.33	62	1408872	8.644	ppbv 99
38) Trichloroethene	7.87	130	785607	8.726	ppbv 97
39) 1,2-Dichloropropane	7.65	63	855743	9.201	ppbv 98
40) 1,4-Dioxane	7.86	88	329470	8.923	ppbv # 99
41) Tetrahydrofuran	6.06	42	974269	9.615	ppbv 99
42) Bromodichloromethane	7.83	83	1832990	8.992	ppbv 99
43) Methyl Methacrylate	8.04	69	901016	9.901	ppbv 98

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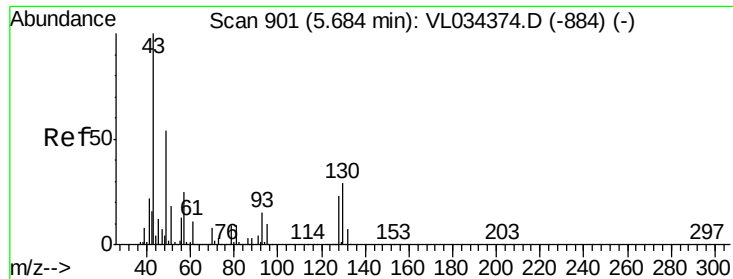
Manual Integrations
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Quant Time: Nov 20 04:26:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov 19 15:26:13 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.90	57	3572805	8.911	ppbv	99
45) t-1,3-Dichloropropene	9.32	75	1218936	10.445	ppbv	100
46) cis-1,3-Dichloropropene	8.74	75	1338162	10.208	ppbv	94
47) 1,1,2-Trichloroethane	9.52	97	848532	9.025	ppbv	98
48) Dibromochloromethane	10.35	129	1498288	9.281	ppbv	100
49) Bromoform	13.10	173	1325580m	9.198	ppbv	
50) 4-Methyl-2-Pentanone	8.77	43	2404784	9.200	ppbv	99
51) 2-Hexanone	10.17	43	2042388	9.328	ppbv #	100
52) Tetrachloroethene	11.27	164	786960	8.290	ppbv	96
53) Toluene	9.85	91	2370710	9.513	ppbv	100
54) 1,2-Dibromoethane	10.66	107	1308885	9.080	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.18	131	981545	8.738	ppbv #	59
57) Chlorobenzene	12.20	112	1750102	8.430	ppbv	98
58) Ethyl Benzene	12.77	91	3187900	8.945	ppbv	100
59) m/p-Xylene	13.05	91	5233183m	16.987	ppbv	
60) o-Xylene	13.75	91	2584109	8.484	ppbv	100
61) Styrene	13.59	104	1959228	8.920	ppbv	99
62) Isopropylbenzene	14.73	105	3384458	8.402	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.73	83	1726854	7.542	ppbv	99
64) n-propylbenzene	15.62	120	874494	8.359	ppbv	97
65) tert-Butylbenzene	16.81	119	2927392	8.090	ppbv	100
66) Benzyl Chloride	17.06	91	1355086	9.734	ppbv	100
67) sec-Butylbenzene	17.36	105	4099807	8.100	ppbv	99
69) p-Isopropyltoluene	17.72	119	3413128	8.125	ppbv	99
70) n-Butylbenzene	18.62	91	3670812	8.121	ppbv	99
71) 2-Chlorotoluene	15.52	91	2667671	8.305	ppbv	100
72) 4-Ethyltoluene	15.90	105	2967543	8.432	ppbv	99
73) 1,3,5-Trimethylbenzene	16.06	105	2824185	8.198	ppbv	99
74) 1,2,4-Trimethylbenzene	16.83	105	2882838	7.878	ppbv	96
75) 1,3-Dichlorobenzene	17.07	146	1632589	7.762	ppbv	99
76) 1,4-Dichlorobenzene	17.21	146	1653413	8.095	ppbv	99
77) 1,2-Dichlorobenzene	17.89	146	1616913	7.959	ppbv	99
78) Hexachloro-1,3-Butadiene	23.45	225	1564492	8.963	ppbv	99
79) Naphthalene	22.29	128	3164060	9.974	ppbv	97
80) Naphthalene, 2-methyl-	25.04	142	1611281	11.248	ppbv	99
81) 1,2,4-Trichlorobenzene	22.02	180	1836322	9.422	ppbv	98

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.00 min

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Tot Ion: 49 Resp: 1052906

Ion Ratio Lower Upper

49 100

128 44.2 21.8 65.3

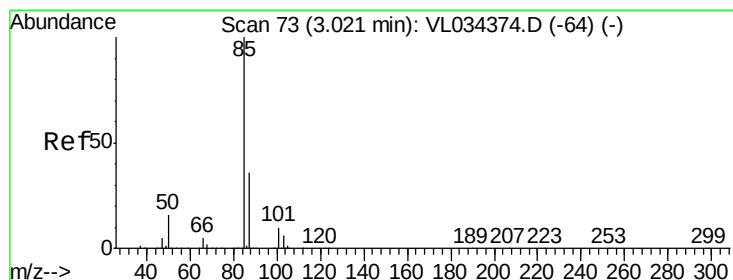
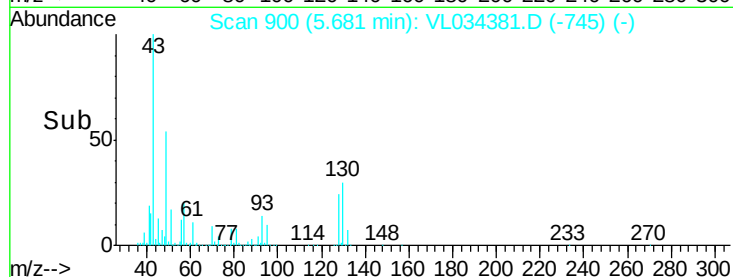
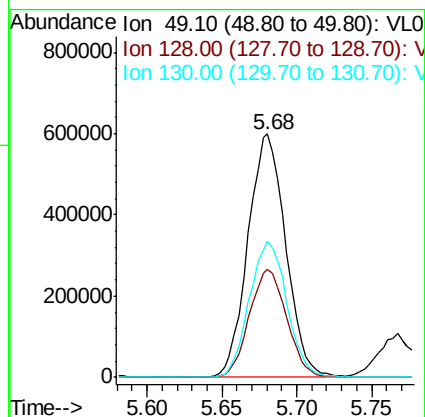
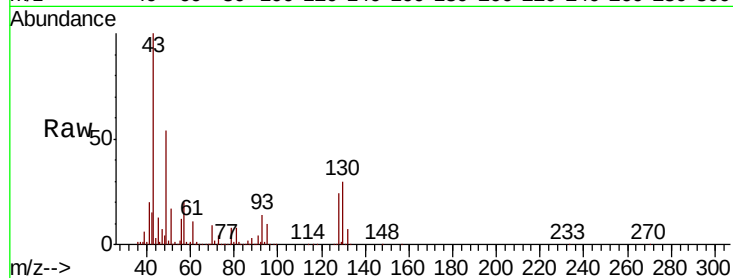
130 56.2 28.0 84.0

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 8.966 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL034381.D

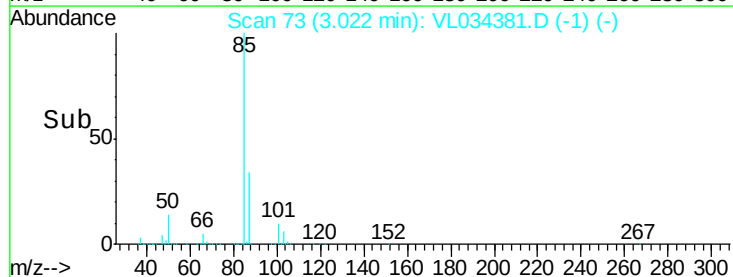
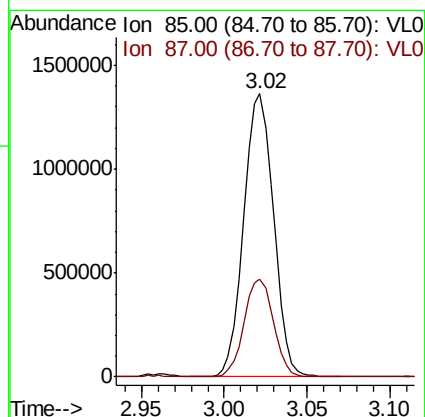
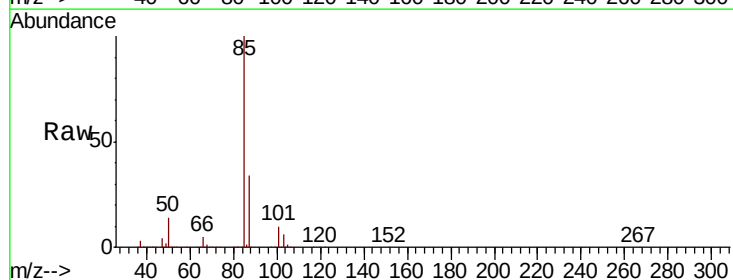
Acq: 19 Nov 2019 15:26

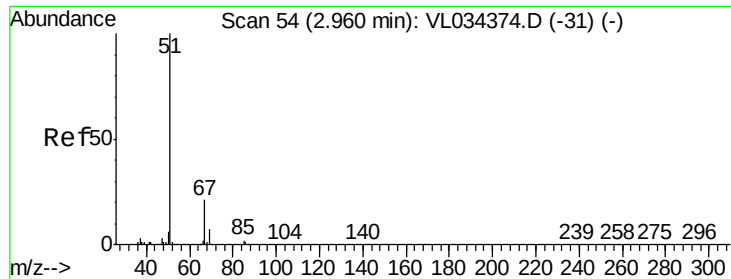
Tgt Ion: 85 Resp: 1707789

Ion Ratio Lower Upper

85 100

87 34.5 28.5 42.7





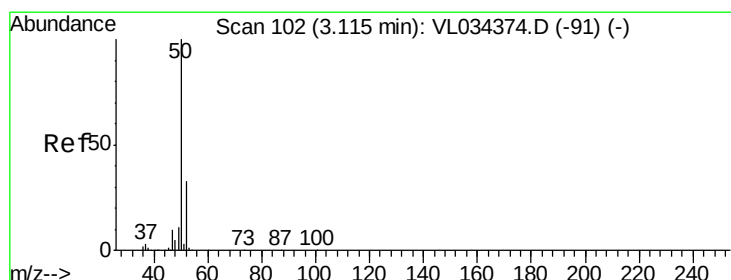
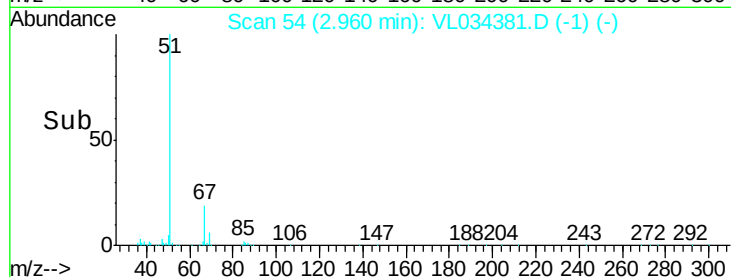
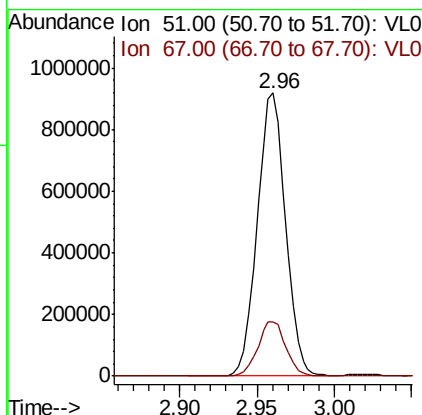
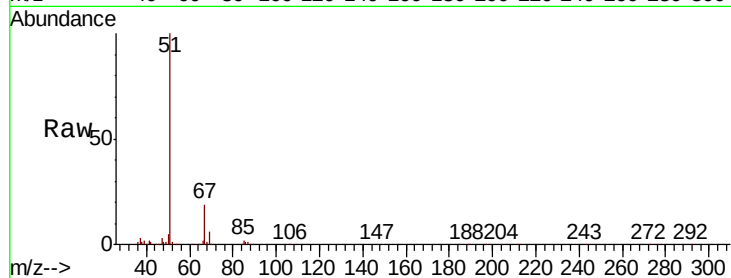
#3
Chlorodifluoromethane
Concen: 8.925 ppbv
RT: 2.96 min Scan# 54
Delta R.T. 0.00 min
Lab File: VL034381.D
Acq: 19 Nov 2019 15:26

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111919

Tot Ion: 51 Resp: 1172530
Ion Ratio Lower Upper
51 100
67 19.2 16.2 24.2

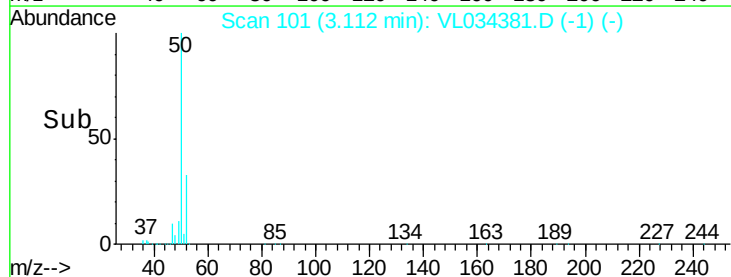
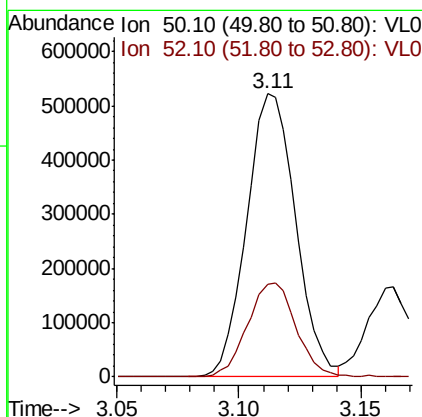
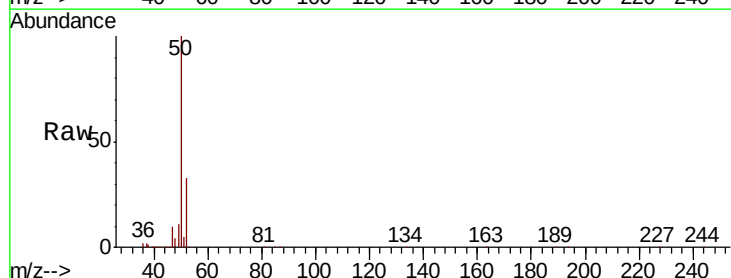
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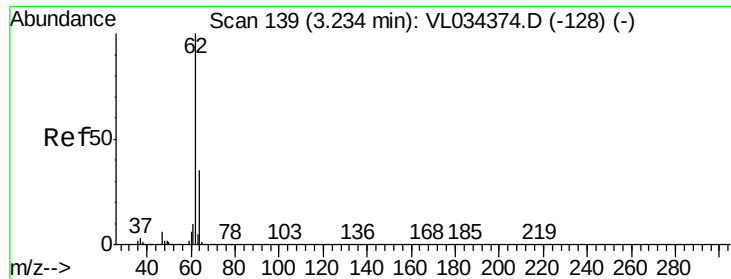
MMDadoda
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#4
Chloromethane
Concen: 9.383 ppbv
RT: 3.11 min Scan# 101
Delta R.T. -0.00 min
Lab File: VL034381.D
Acq: 19 Nov 2019 15:26

Tgt Ion: 50 Resp: 727096
Ion Ratio Lower Upper
50 100
52 32.9 26.8 40.2





#5

Vinyl Chloride

Concen: 9.030 ppbv

RT: 3.23 min Scan# 139

Delta R.T. 0.00 min

Lab File: VL034381.D

Acq: 19 Nov 2019 15:26

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111919

Tot Ion: 62 Resp: 655600

Ion Ratio Lower Upper

62 100

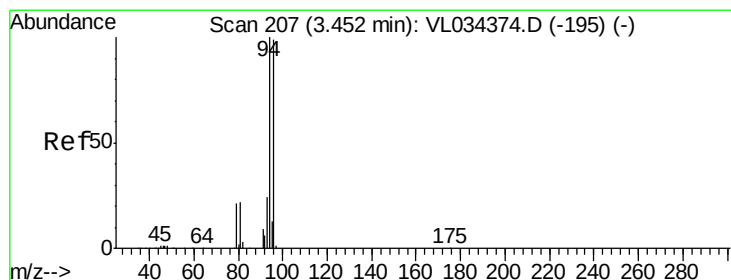
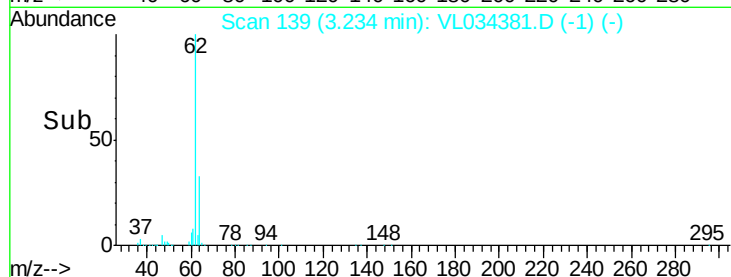
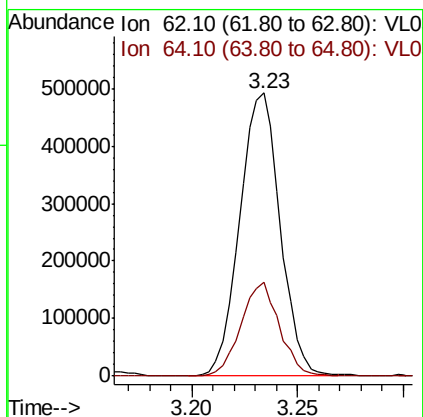
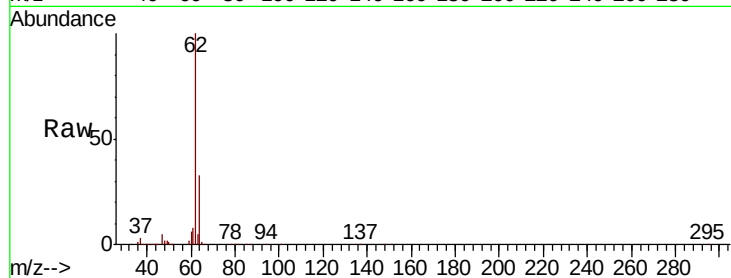
64 33.2 28.4 42.6

Manual Integrations

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#6

Bromomethane

Concen: 9.593 ppbv

RT: 3.45 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL034381.D

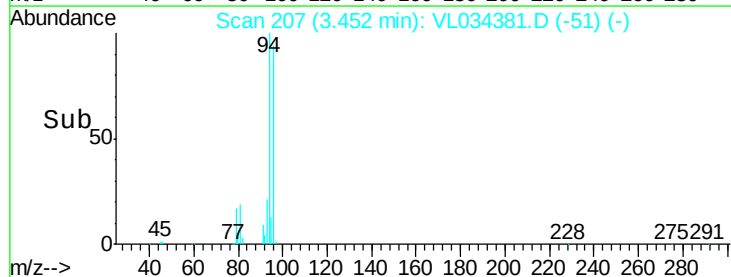
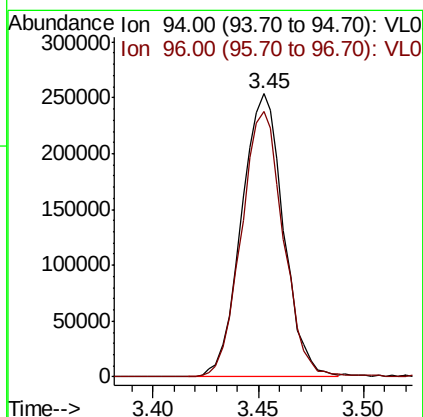
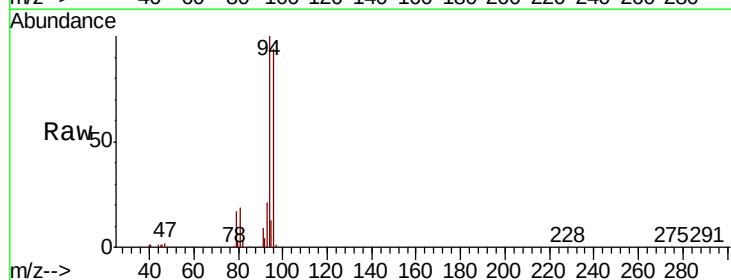
Acq: 19 Nov 2019 15:26

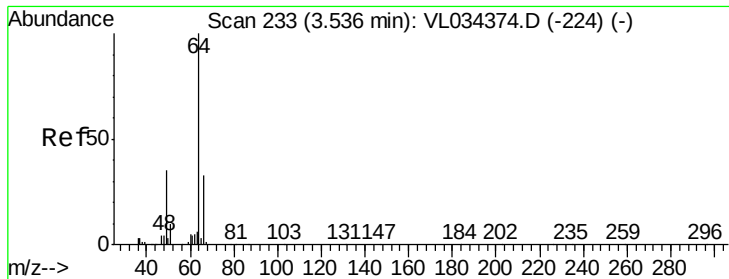
Tgt Ion: 94 Resp: 350445

Ion Ratio Lower Upper

94 100

96 93.6 79.5 119.3





#7

Chloroethane

Concen: 9.384 ppbv

RT: 3.54 min Scan# 233

Delta R.T. 0.00 min

Lab File: VL034381.D

Acq: 19 Nov 2019 15:26

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111919

Tot Ion: 64 Resp: 247268

Ion Ratio Lower Upper

64 100

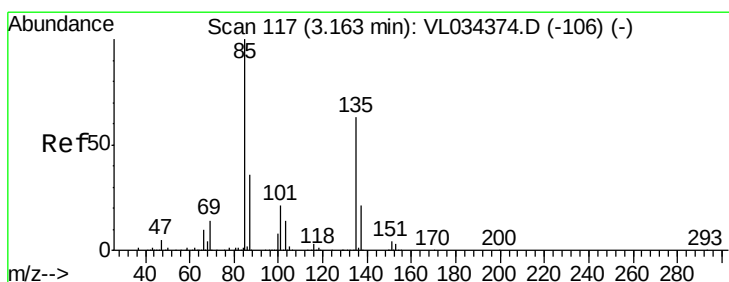
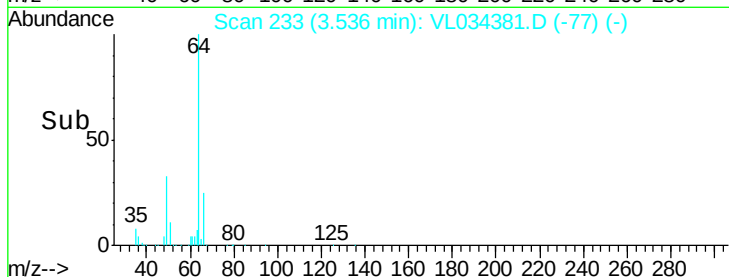
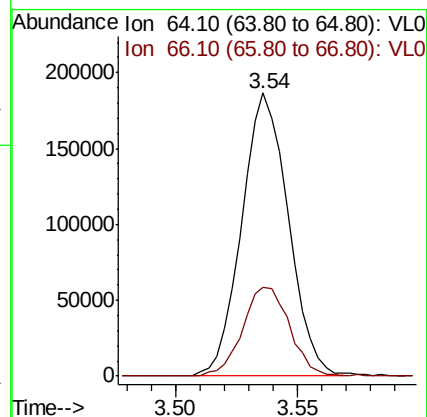
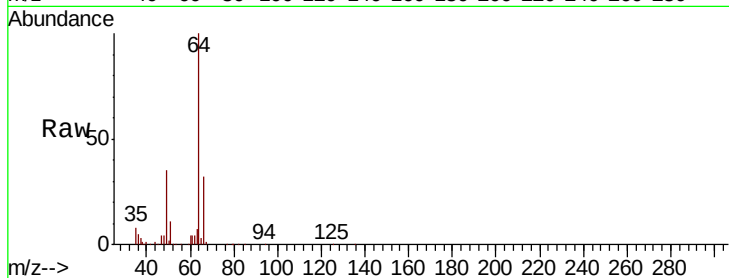
66 31.5 26.0 39.0

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 8.706 ppbv

RT: 3.16 min Scan# 117

Delta R.T. 0.00 min

Lab File: VL034381.D

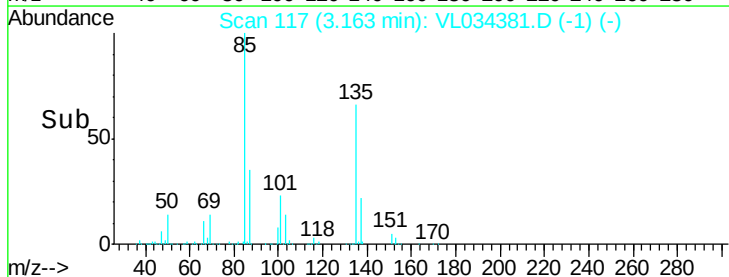
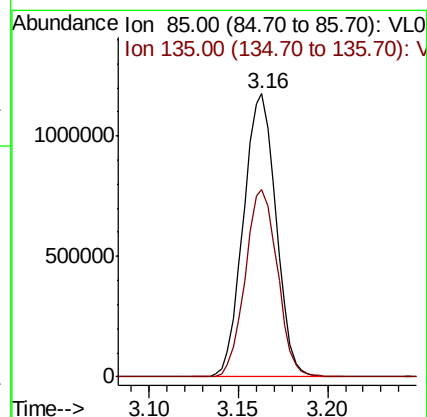
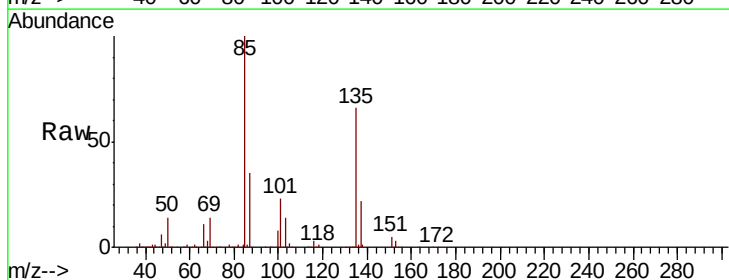
Acq: 19 Nov 2019 15:26

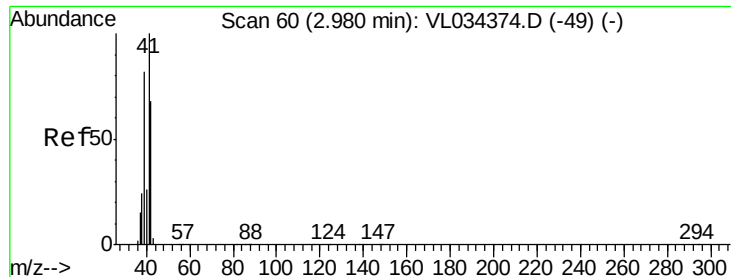
Tgt Ion: 85 Resp: 1489264

Ion Ratio Lower Upper

85 100

135 65.8 51.1 76.7





#9

Propene

Concen: 9.703 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.00 min

Lab File: VL034381.D

Acq: 19 Nov 2019 15:26

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111919

Tot Ion: 41 Resp: 565901

Ion Ratio Lower Upper

41 100

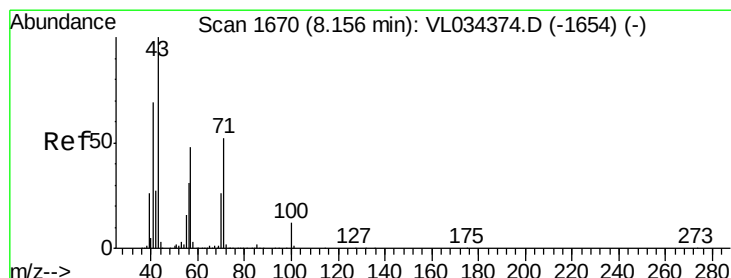
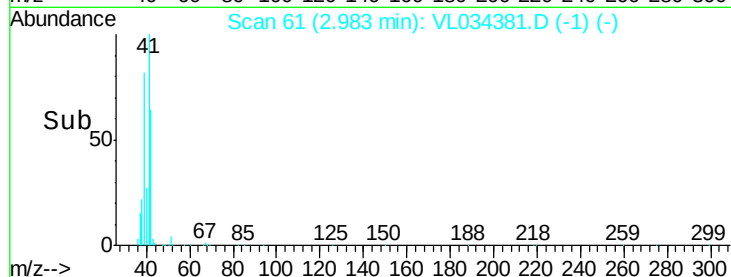
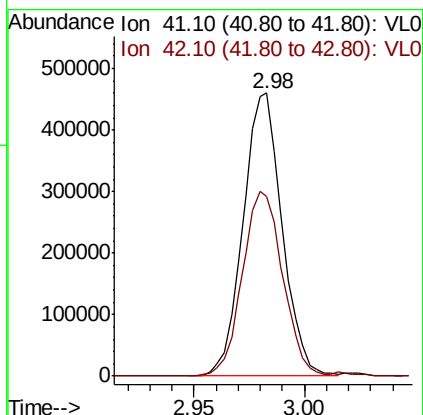
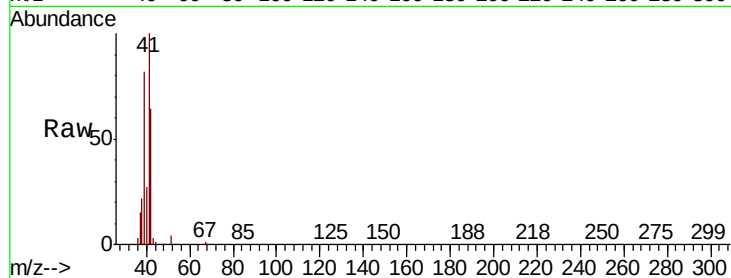
42 68.2 54.6 82.0

Manual Integrations

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#10

Heptane

Concen: 9.530 ppbv

RT: 8.16 min Scan# 1670

Delta R.T. 0.00 min

Lab File: VL034381.D

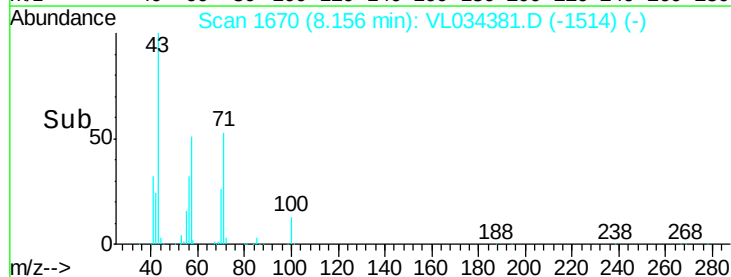
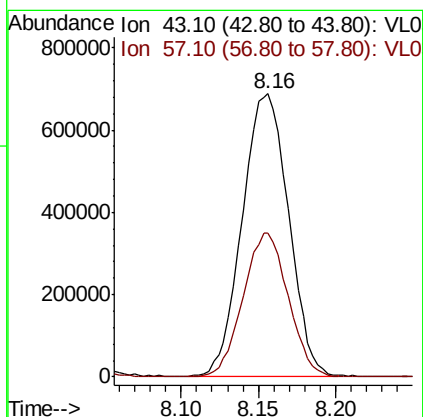
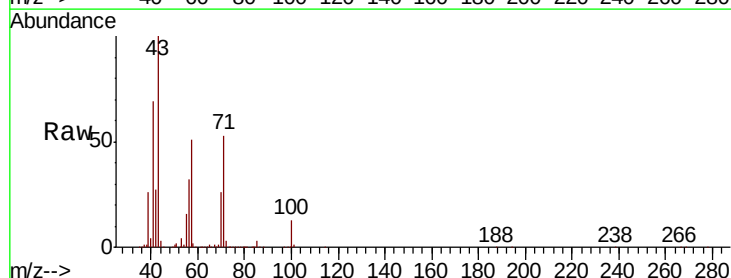
Acq: 19 Nov 2019 15:26

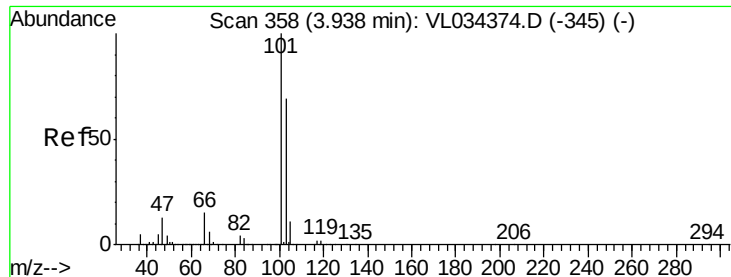
Tgt Ion: 43 Resp: 1434481

Ion Ratio Lower Upper

43 100

57 49.3 40.2 60.2





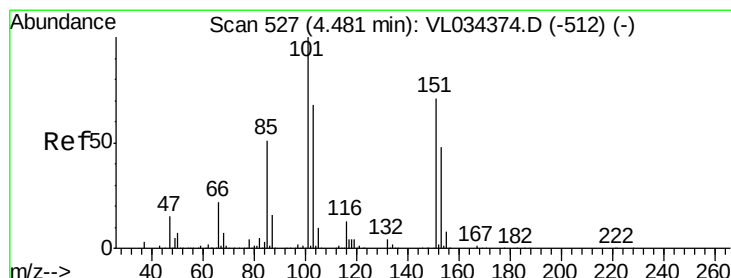
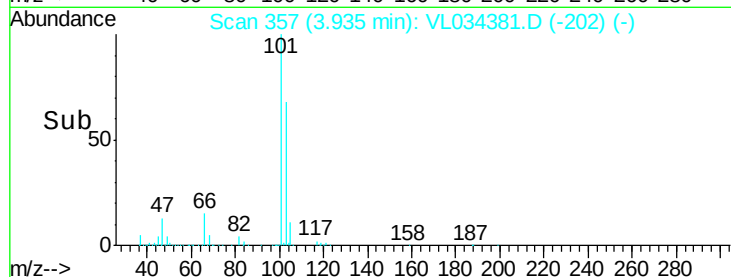
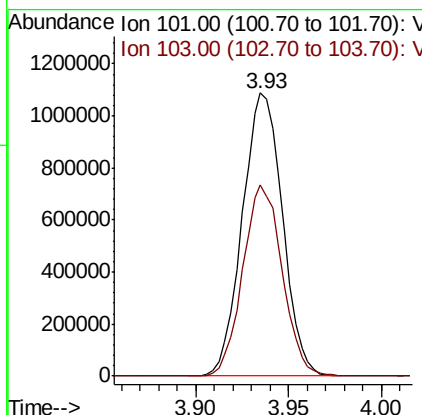
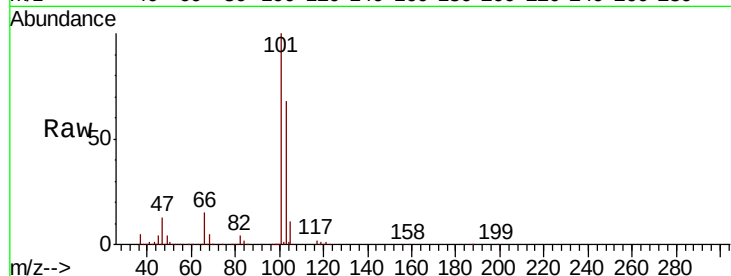
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 Trichlorofluoromethane
 Concen: 8.680 ppbv
 RT: 3.93 min Scan# 357
 Delta R.T. -0.00 min
 Lab File: VL034381.D
 Acq: 19 Nov 2019 15:26

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111919

Tot Ion:101 Resp: 1645490
 Ion Ratio Lower Upper
 101 100
 103 67.6 55.4 83.0

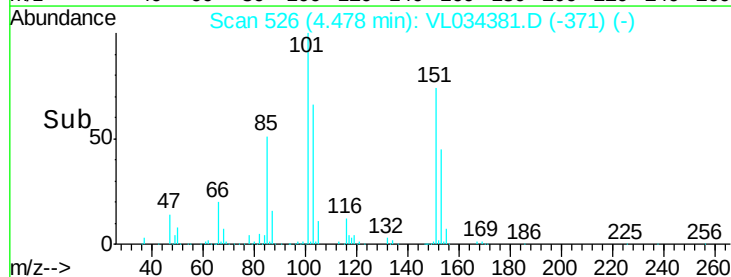
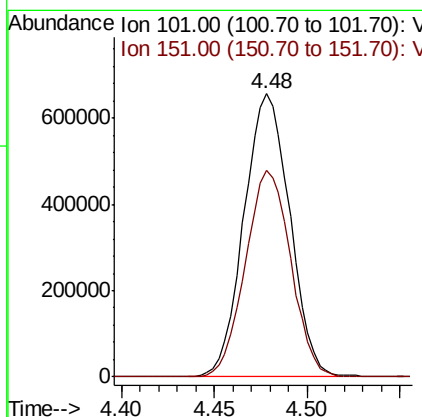
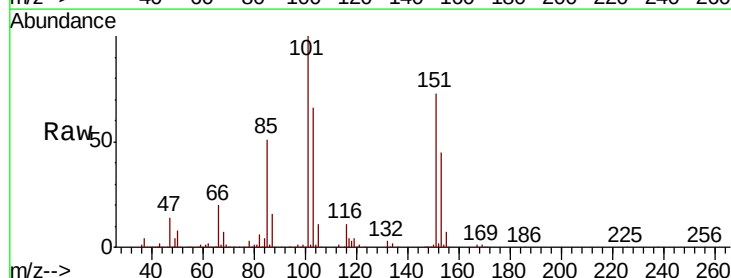
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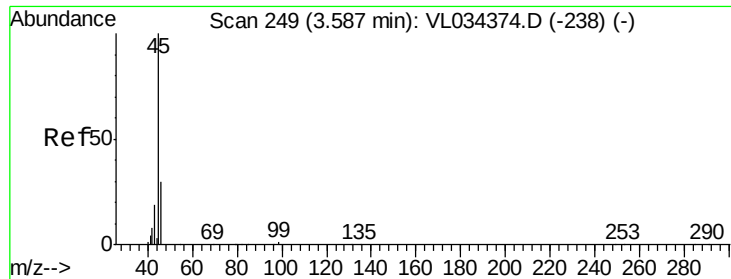
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.963 ppbv
 RT: 4.48 min Scan# 526
 Delta R.T. -0.00 min
 Lab File: VL034381.D
 Acq: 19 Nov 2019 15:26

Tgt Ion:101 Resp: 1128337
 Ion Ratio Lower Upper
 101 100
 151 72.5 57.4 86.2





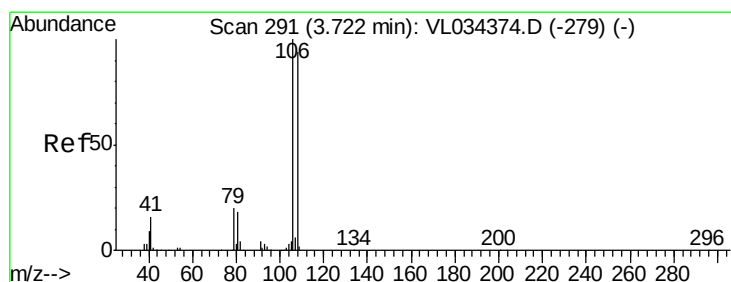
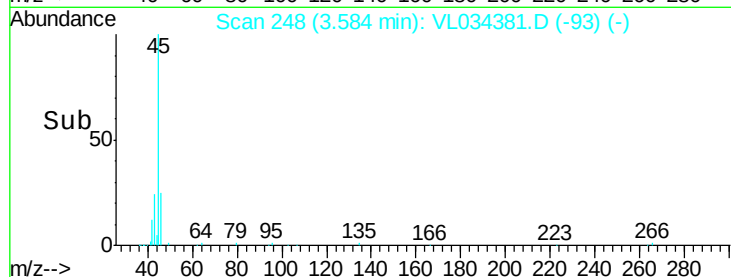
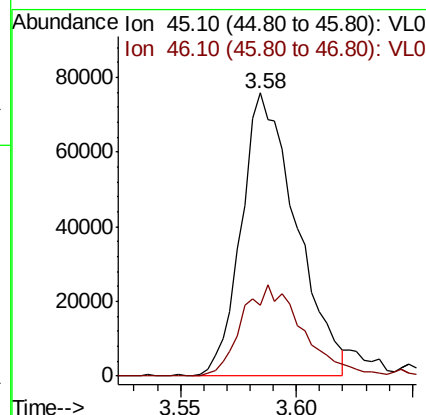
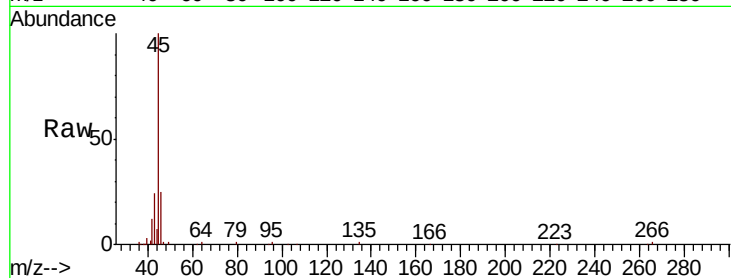
#13
Ethanol
Concen: 7.331 ppbv
RT: 3.58 min Scan# 248
Delta R.T. -0.00 min
Lab File: VL034381.D
Acq: 19 Nov 2019 15:26

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111919

Tot Ion	Ratio	Lower	Upper
45	100		
46	36.5	13.8	55.4

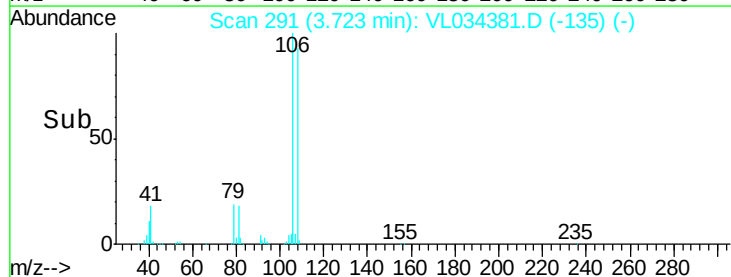
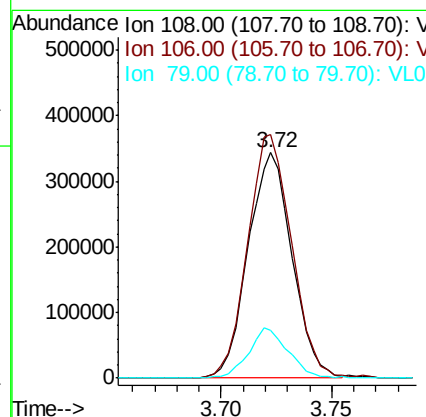
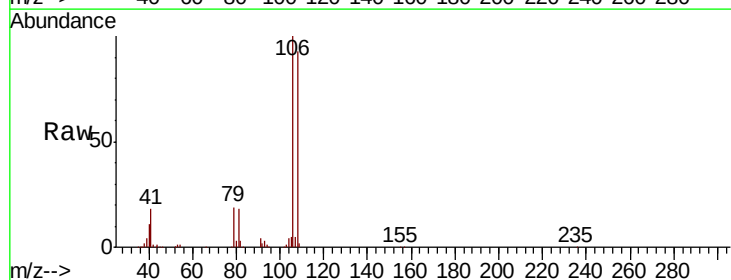
Manual Integrations
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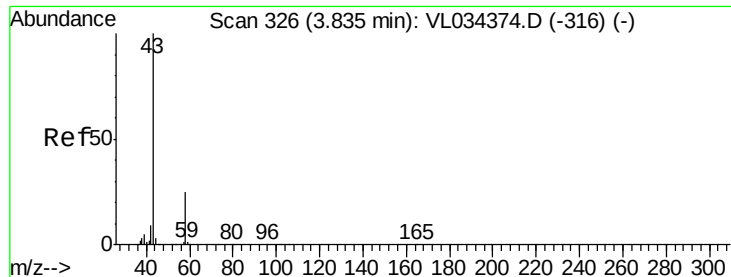
MMDadoda
11/20/2019 3:53:41 PM



#14
Bromoethene
Concen: 9.277 ppbv
RT: 3.72 min Scan# 291
Delta R.T. 0.00 min
Lab File: VL034381.D
Acq: 19 Nov 2019 15:26

Tgt Ion	Ratio	Lower	Upper
108	100		
106	108.6	85.7	128.5
79	20.3	17.2	25.8





#15

Acetone

Concen: 8.632 ppbv

RT: 3.84 min Scan# 326

Delta R.T. 0.00 min

Lab File: VL034381.D

Acq: 19 Nov 2019 15:26

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111919

Tot Ion: 43 Resp: 1301516

Ion Ratio Lower Upper

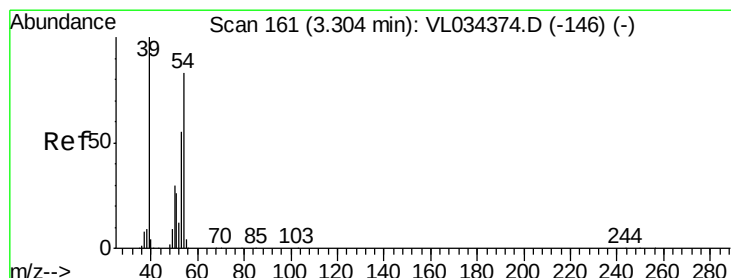
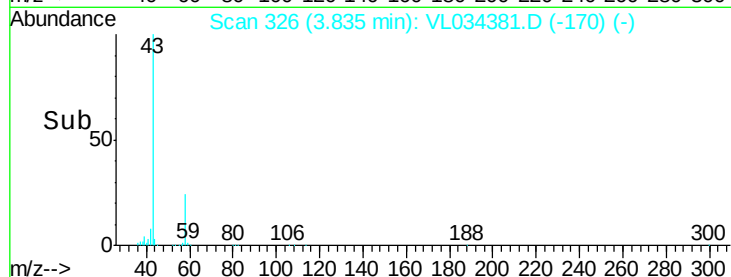
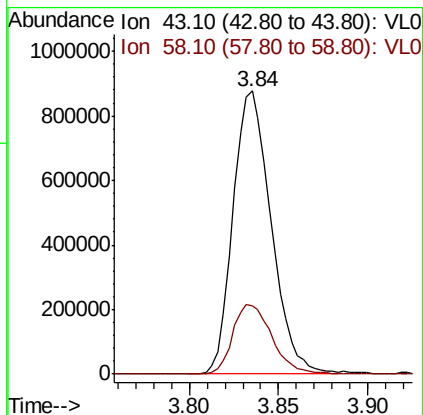
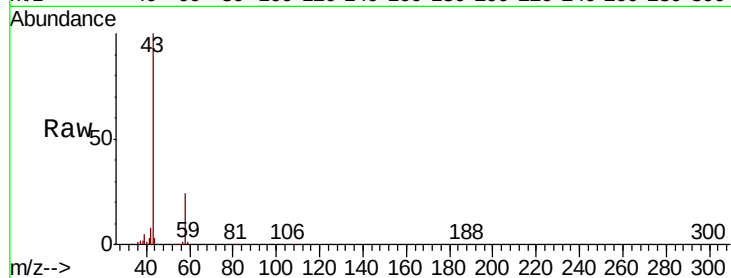
43 100

58 25.4 20.2 30.4

Manual Integrations
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#16

1,3-Butadiene

Concen: 9.399 ppbv

RT: 3.30 min Scan# 161

Delta R.T. 0.00 min

Lab File: VL034381.D

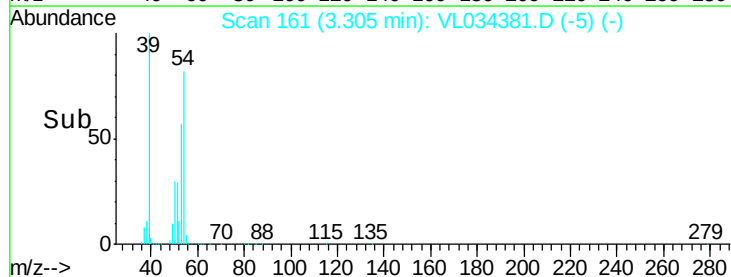
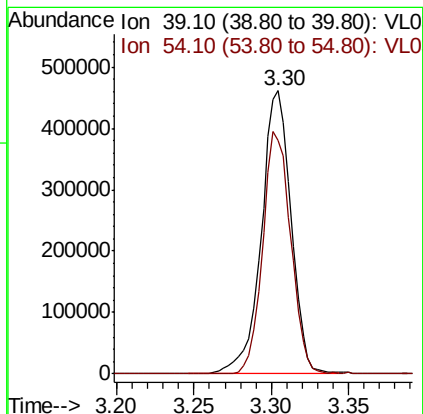
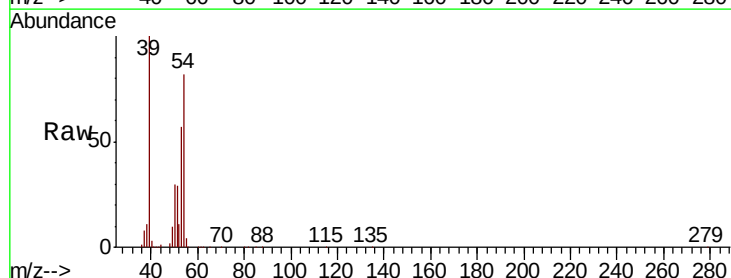
Acq: 19 Nov 2019 15:26

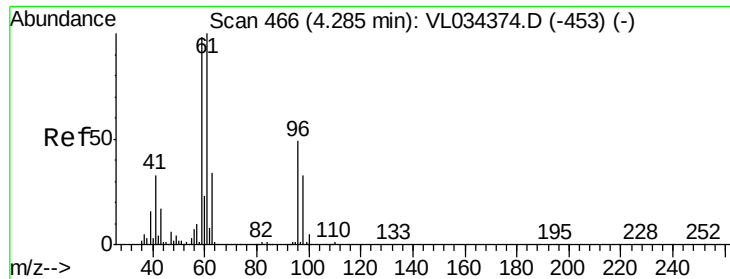
Tgt Ion: 39 Resp: 617269

Ion Ratio Lower Upper

39 100

54 81.1 64.7 97.1





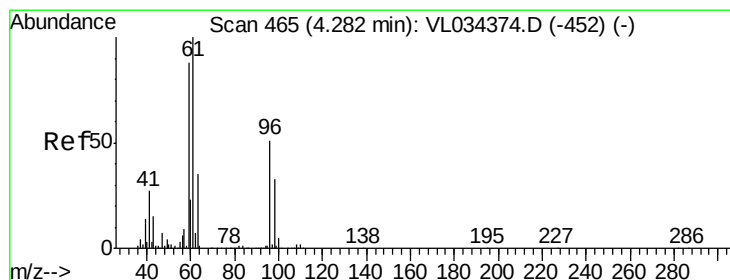
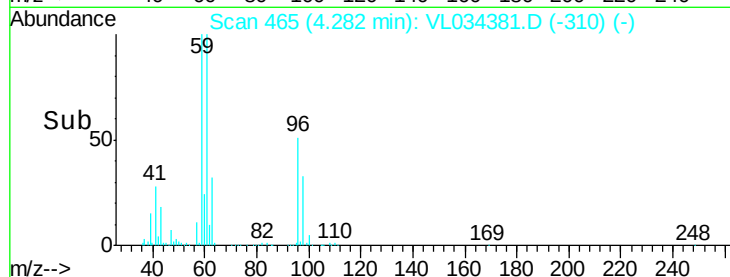
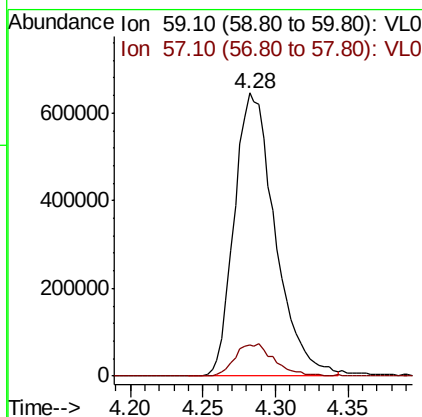
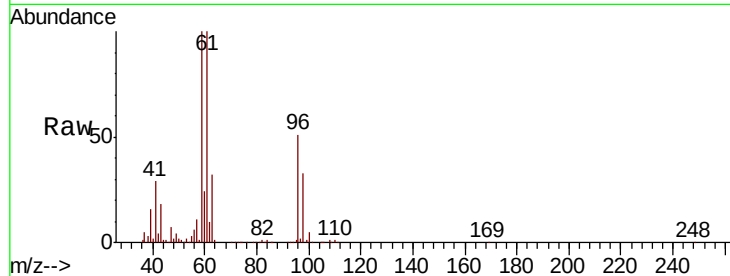
#17
 tert-Butyl alcohol
 Concen: 9.974 ppbv
 RT: 4.28 min Scan# 465
 Delta R.T. -0.00 min
 Lab File: VL034381.D
 Acq: 19 Nov 2019 15:26

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111919

Tot Ion: 59 Resp: 1264088
 Ion Ratio Lower Upper
 59 100
 57 11.3 8.8 13.2

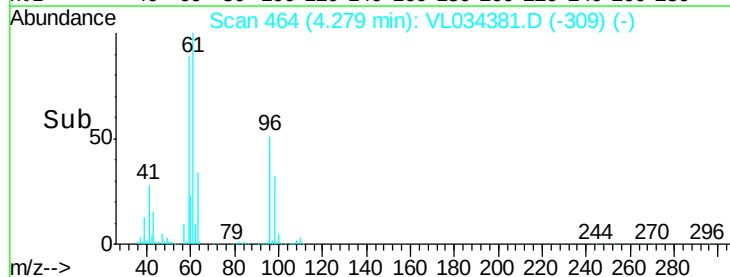
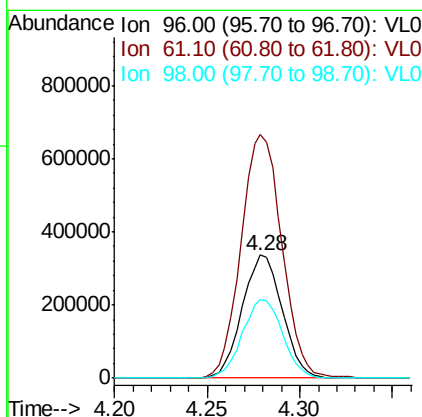
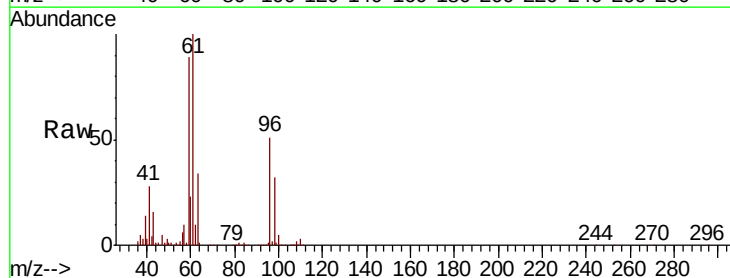
Manual Integrations
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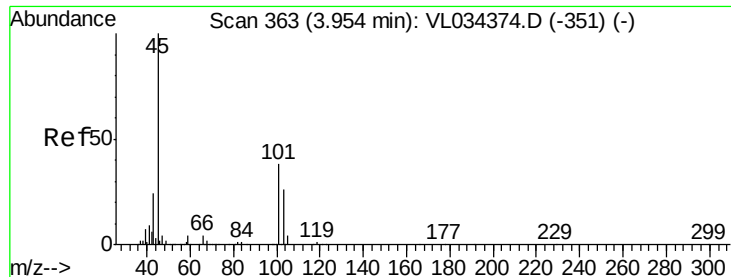
MMDadoda
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#18
 1,1-Dichloroethene
 Concen: 9.170 ppbv
 RT: 4.28 min Scan# 464
 Delta R.T. -0.00 min
 Lab File: VL034381.D
 Acq: 19 Nov 2019 15:26

Tgt Ion: 96 Resp: 504983
 Ion Ratio Lower Upper
 96 100
 61 197.7 155.6 233.4
 98 63.4 51.6 77.4





#19

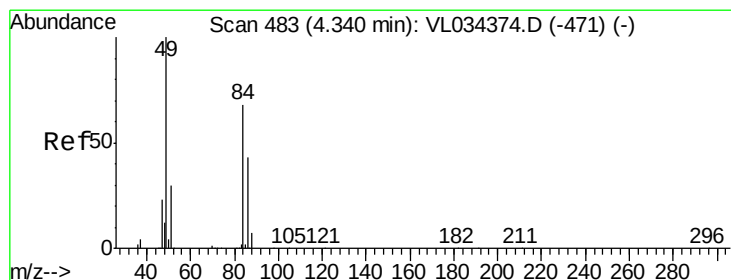
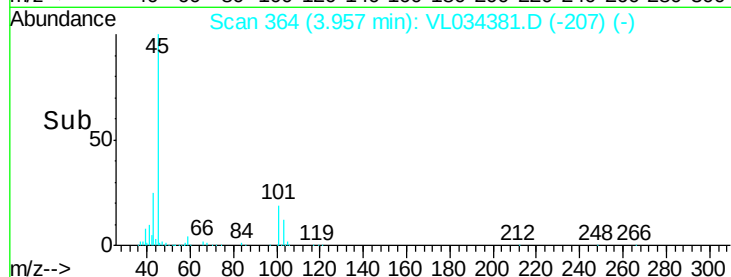
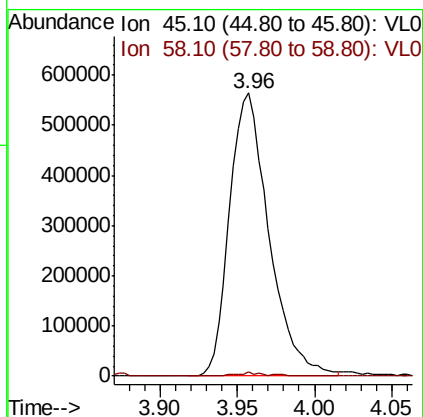
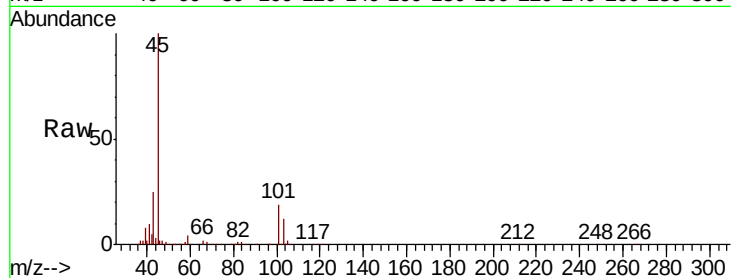
Isopropyl Alcohol
 Concen: 9.093 ppbv
 RT: 3.96 min Scan# 364
 Delta R.T. 0.00 min
 Lab File: VL034381.D
 Acq: 19 Nov 2019 15:26

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111919

Tot Ion	Ratio	Lower	Upper
45	100		
58	1.4	1.3	1.9

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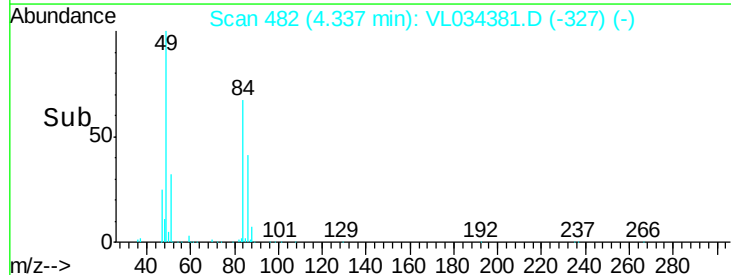
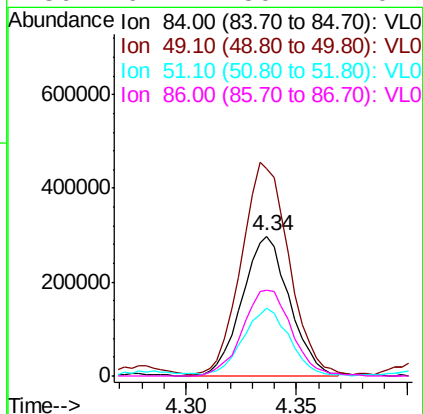
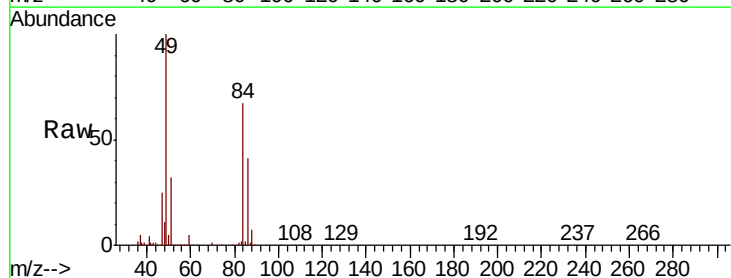
MMDadoda
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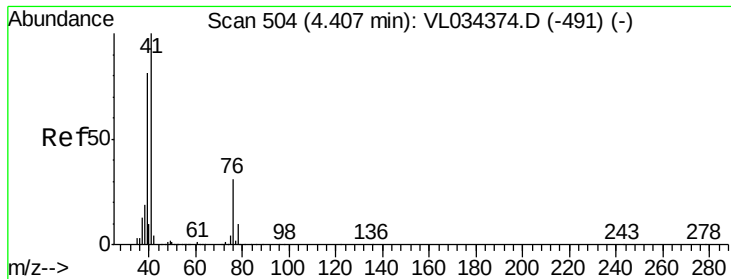


#20

Methylene Chloride
 Concen: 8.308 ppbv
 RT: 4.34 min Scan# 482
 Delta R.T. -0.00 min
 Lab File: VL034381.D
 Acq: 19 Nov 2019 15:26

Tgt Ion	Ratio	Lower	Upper
84	100		
49	147.4	116.8	175.2
51	47.1	35.6	53.4
86	61.1	50.7	76.1





#21

Allvl Chloride

Concen: 9.724 ppbv

RT: 4.40 min Scan# 503

Delta R.T. -0.00 min

Lab File: VL034381.D

Acq: 19 Nov 2019 15:26

Instrument :

MSVOA_L

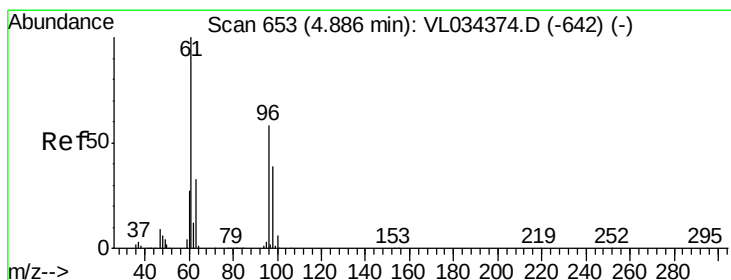
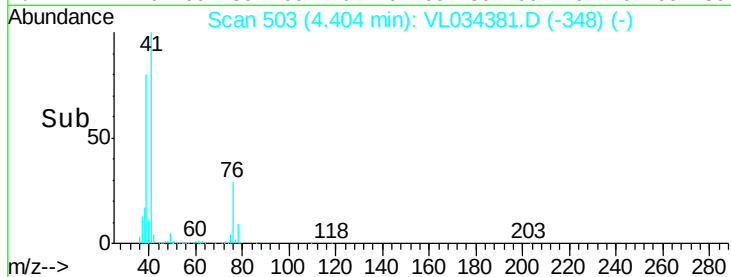
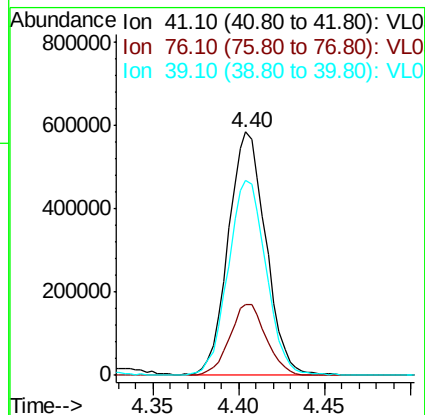
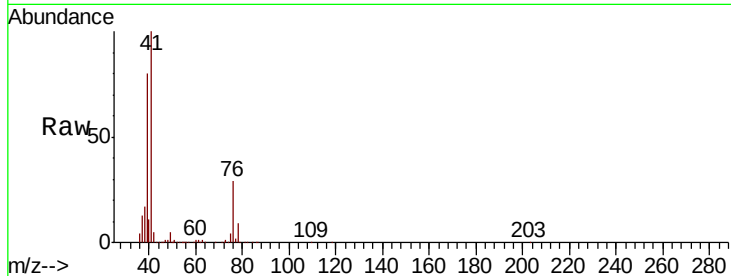
ClientSampleId :

ICVVL111919

Tot Ion:	41	Resp:	878536
Ion Ratio	Lower	Upper	
41	100		
76	28.7	24.2	36.2
39	81.6	66.9	100.3

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 9.310 ppbv

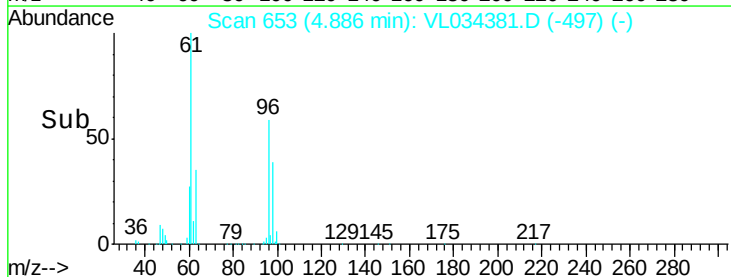
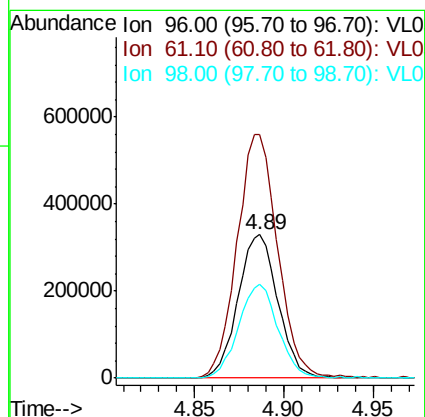
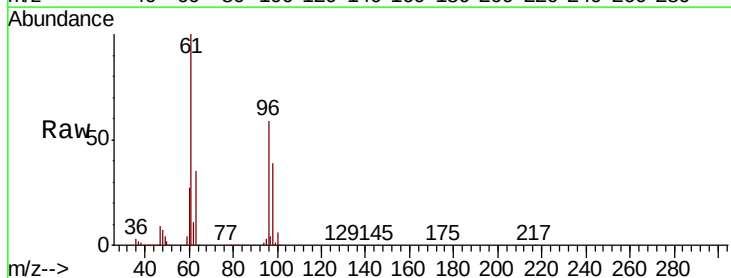
RT: 4.89 min Scan# 653

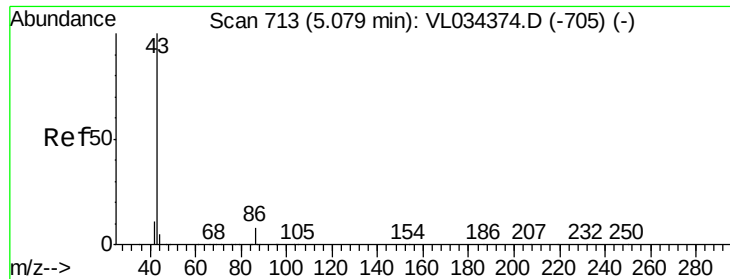
Delta R.T. 0.00 min

Lab File: VL034381.D

Acq: 19 Nov 2019 15:26

Tgt Ion:	96	Resp:	516835
Ion Ratio	Lower	Upper	
96	100		
61	169.5	137.9	206.9
98	65.4	53.5	80.3





#23

Vinyl Acetate

Concen: 10.019 ppbv

RT: 5.08 min Scan# 712

Delta R.T. -0.00 min

Lab File: VL034381.D

Acq: 19 Nov 2019 15:26

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111919

Tot Ion: 43 Resp: 1973335

Ion Ratio Lower Upper

43 100

86 7.0 5.8 8.6

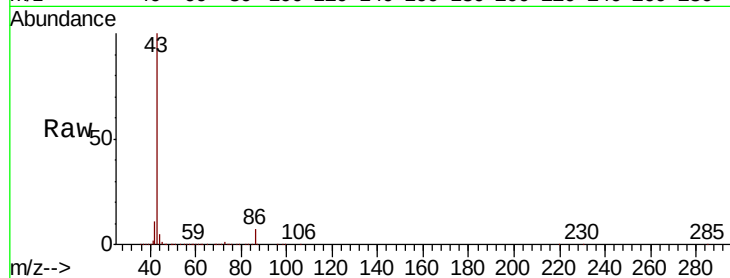
42 10.6 8.9 13.3

44 4.7 4.0 6.0

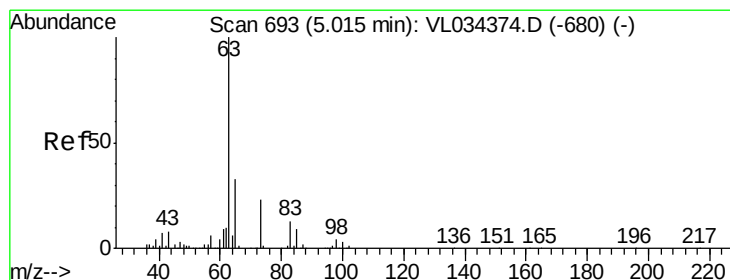
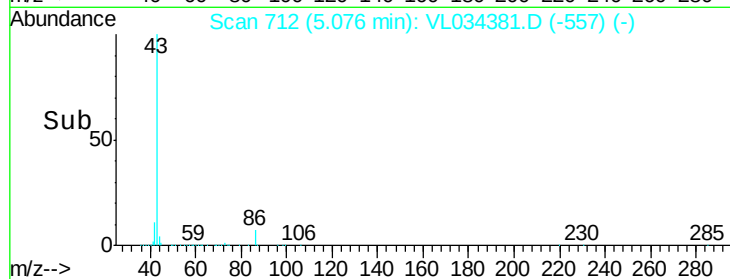
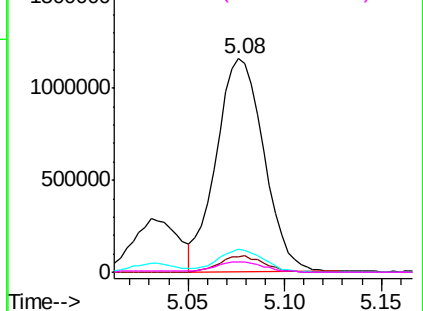
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.156 ppbv

RT: 5.01 min Scan# 692

Delta R.T. -0.00 min

Lab File: VL034381.D

Acq: 19 Nov 2019 15:26

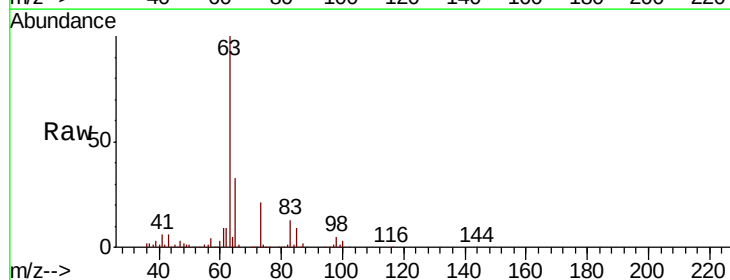
Tgt Ion: 63 Resp: 1385221

Ion Ratio Lower Upper

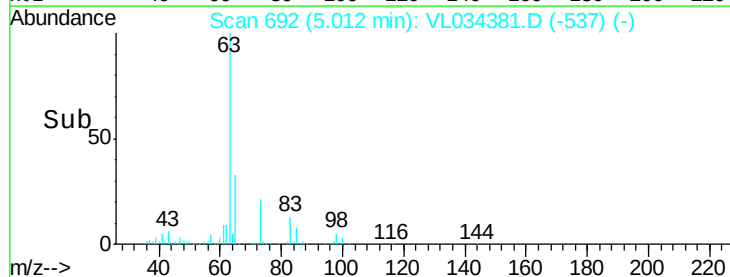
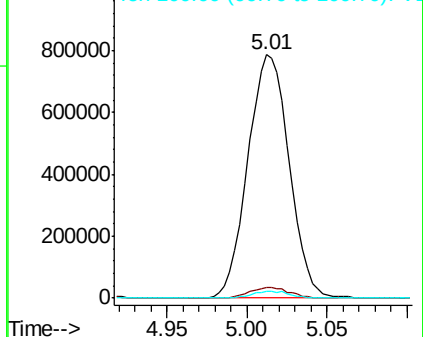
63 100

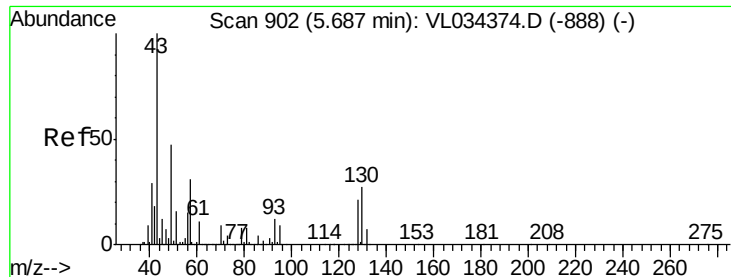
98 4.6 1.9 5.7

100 2.8 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: 9.112 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL034381.D

Acq: 19 Nov 2019 15:26

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111919

Tot Ion: 43 Resp: 2451419

Ion Ratio Lower Upper

43 100

45 10.5 8.2 12.4

61 9.9 7.5 11.3

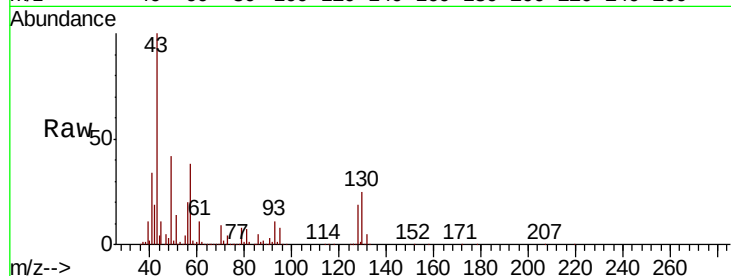
70 7.3 5.7 8.5

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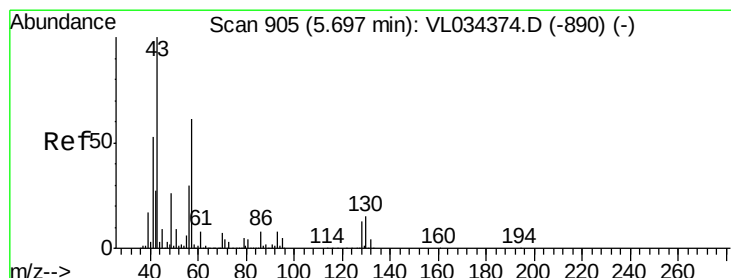
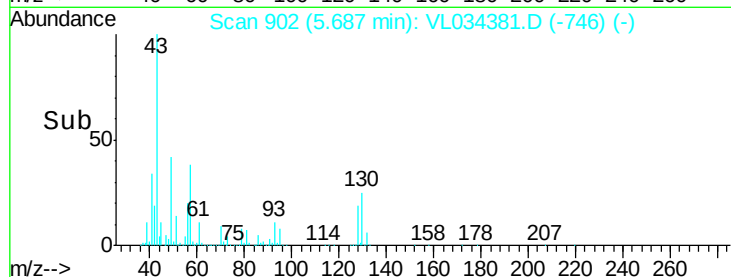
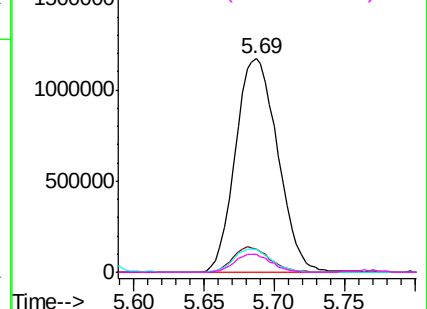
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.164 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.00 min

Lab File: VL034381.D

Acq: 19 Nov 2019 15:26

Tgt Ion: 57 Resp: 1059444

Ion Ratio Lower Upper

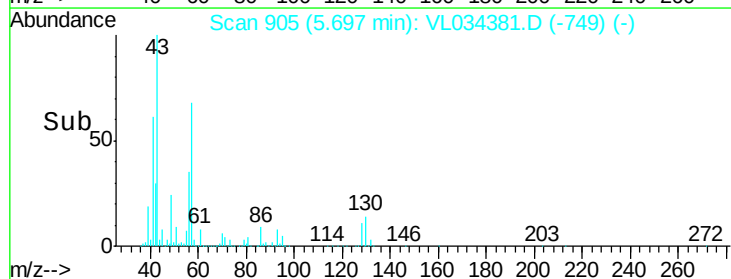
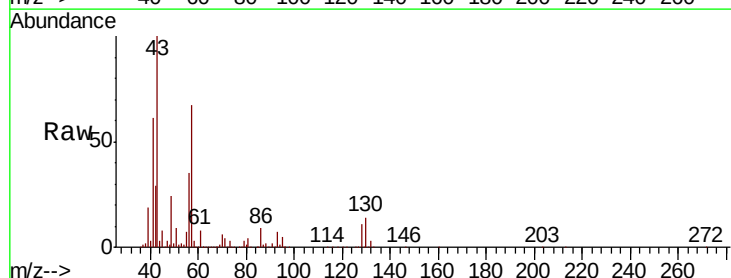
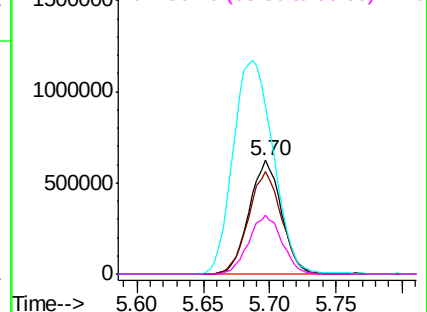
57 100

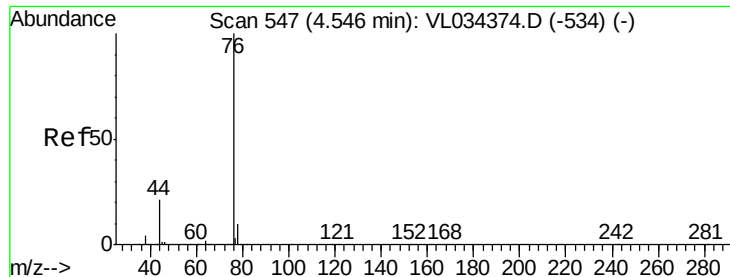
41 92.4 75.0 112.4

43 232.6 186.6 279.8

56 52.9 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: 10.337 ppbv

RT: 4.54 min Scan# 546

Delta R.T. -0.00 min

Lab File: VL034381.D

Acq: 19 Nov 2019 15:26

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111919

Tot Ion: 76 Resp: 1301637

Ion Ratio Lower Upper

76 100

44 21.0 17.0 25.4

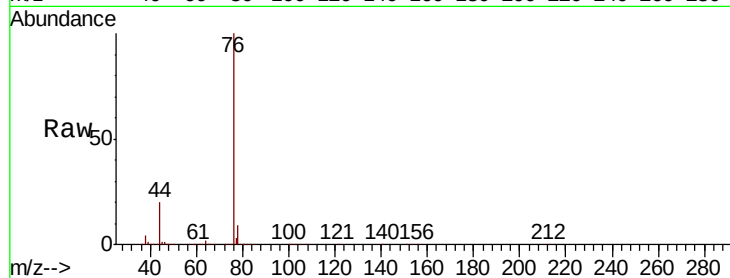
78 9.2 7.6 11.4

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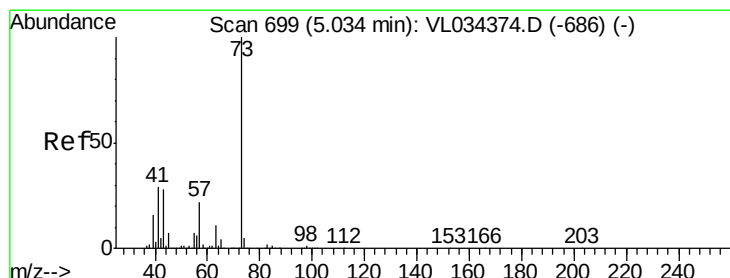
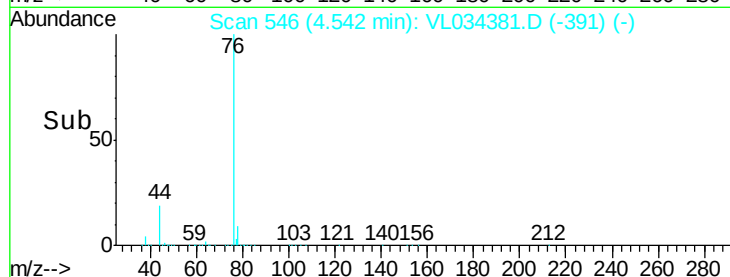
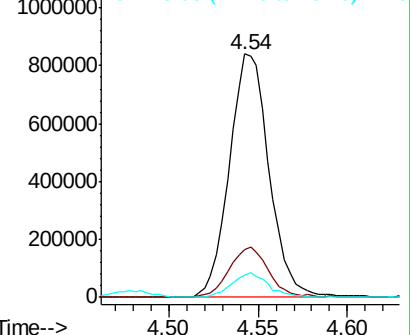
11/20/2019 3:53:41 PM



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.627 ppbv

RT: 5.03 min Scan# 698

Delta R.T. -0.00 min

Lab File: VL034381.D

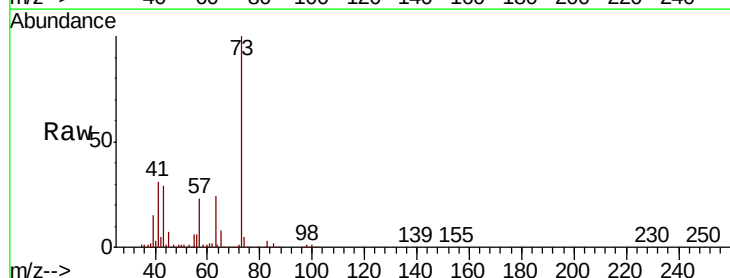
Acq: 19 Nov 2019 15:26

Tgt Ion: 73 Resp: 1845551

Ion Ratio Lower Upper

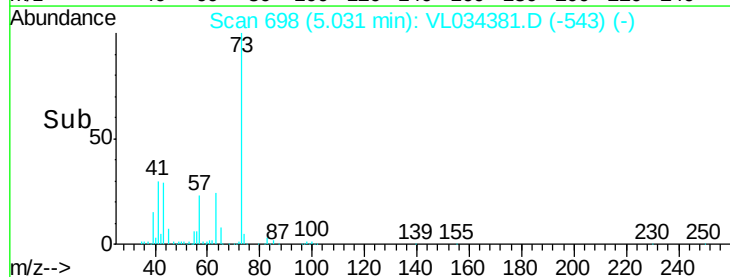
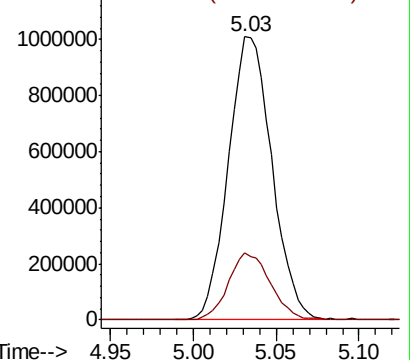
73 100

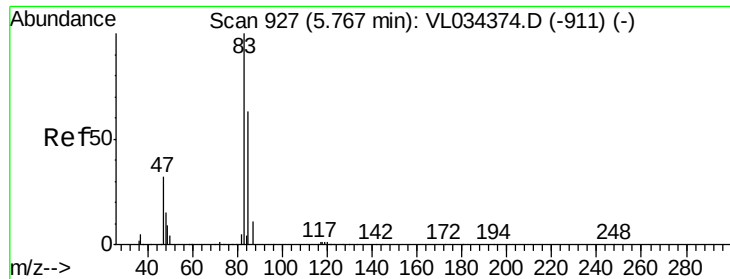
57 23.0 18.4 27.6



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





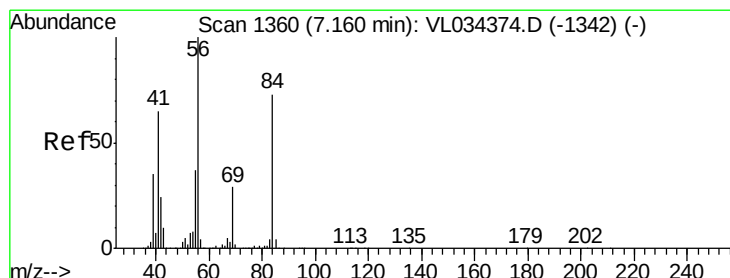
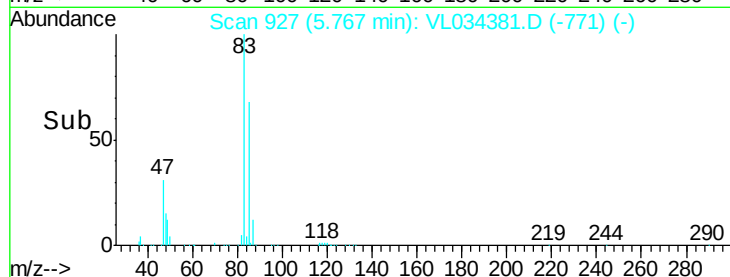
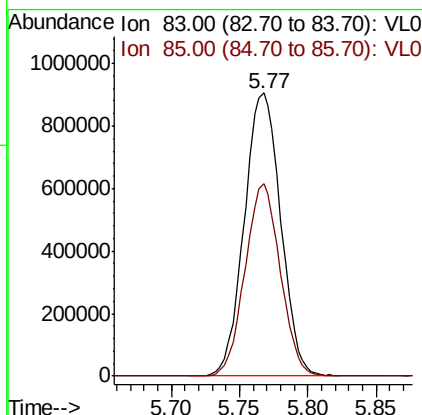
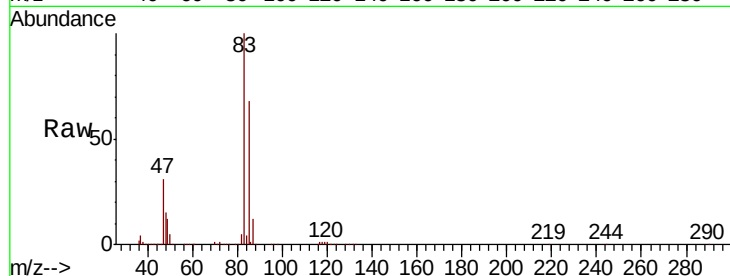
#29
Chloroform
Concen: 8.983 ppbv
RT: 5.77 min Scan# 927
Delta R.T. 0.00 min
Lab File: VL034381.D
Acq: 19 Nov 2019 15:26

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111919

Tot Ion: 83 Resp: 1681786
Ion Ratio Lower Upper
83 100
85 67.7 50.4 75.6

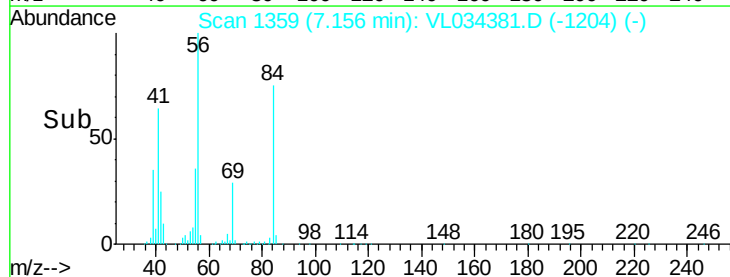
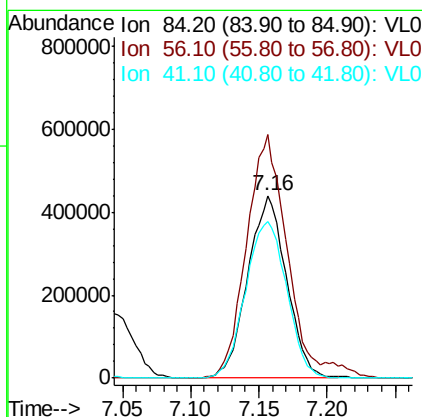
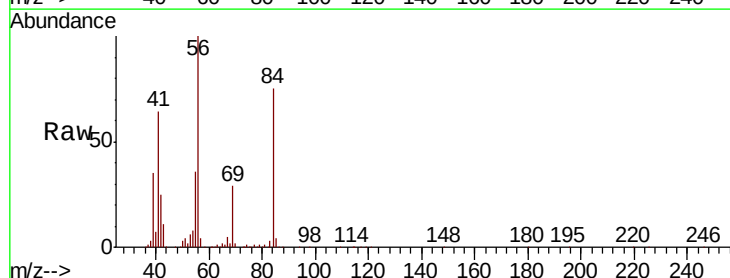
Manual Integrations
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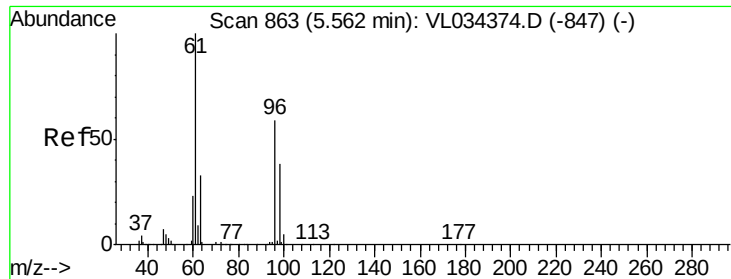
MMDadoda
11/20/2019 3:53:41 PM



#30
Cyclohexane
Concen: 9.931 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VL034381.D
Acq: 19 Nov 2019 15:26

Tgt Ion: 84 Resp: 867983
Ion Ratio Lower Upper
84 100
56 142.6 112.6 169.0
41 91.6 73.4 110.2





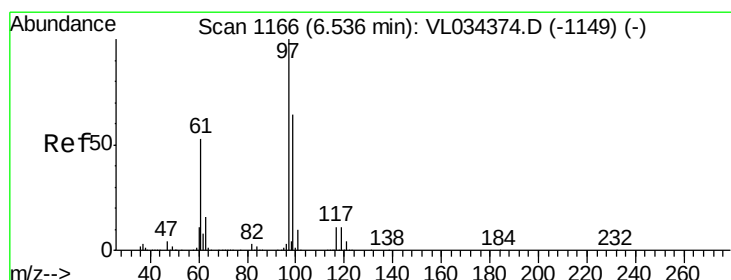
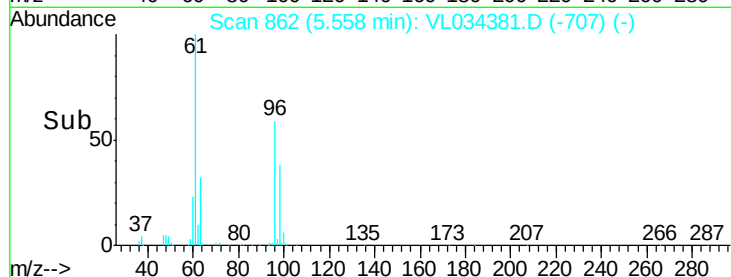
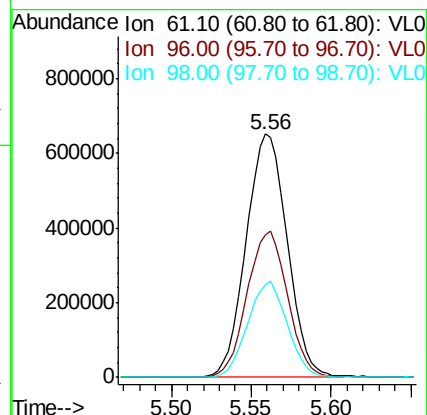
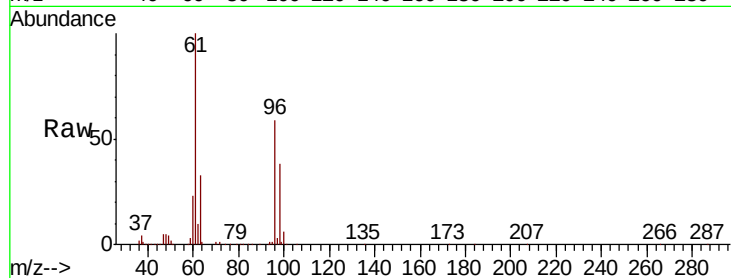
#31
 cis-1,2-Dichloroethene
 Concen: 9.595 ppbv
 RT: 5.56 min Scan# 862
 Delta R.T. -0.00 min
 Lab File: VL034381.D
 Acq: 19 Nov 2019 15:26

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111919

Tot Ion: 61 Resp: 1146269
 Ion Ratio Lower Upper
 61 100
 96 58.6 47.4 71.2
 98 38.1 30.6 45.8

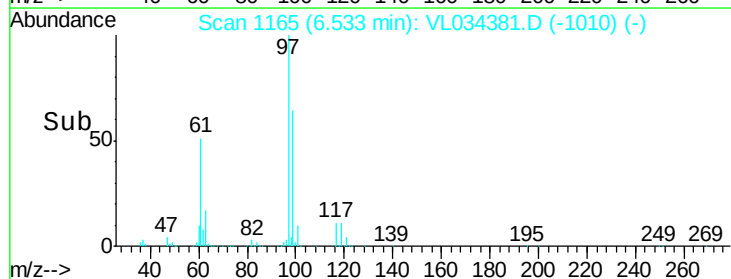
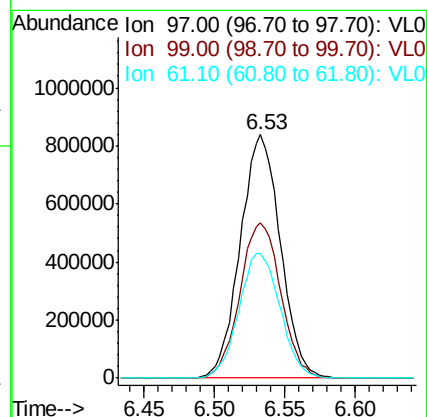
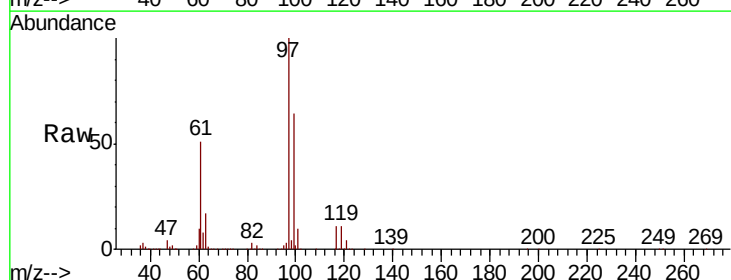
Manual Integrations
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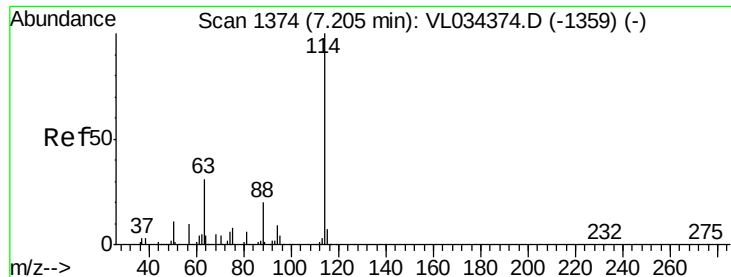
MMDadoda
 11/20/2019 3:53:41 PM



#32
 1,1,1-Trichloroethane
 Concen: 9.510 ppbv
 RT: 6.53 min Scan# 1165
 Delta R.T. -0.00 min
 Lab File: VL034381.D
 Acq: 19 Nov 2019 15:26

Tgt Ion: 97 Resp: 1669258
 Ion Ratio Lower Upper
 97 100
 99 65.2 52.3 78.5
 61 52.9 43.7 65.5





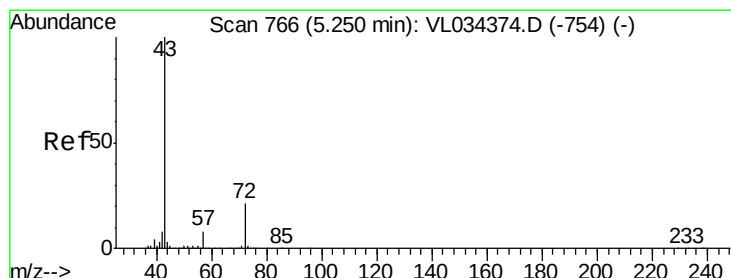
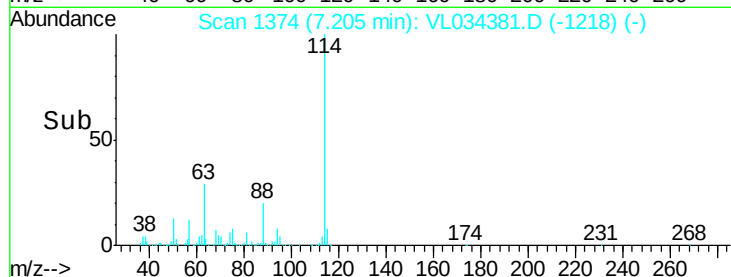
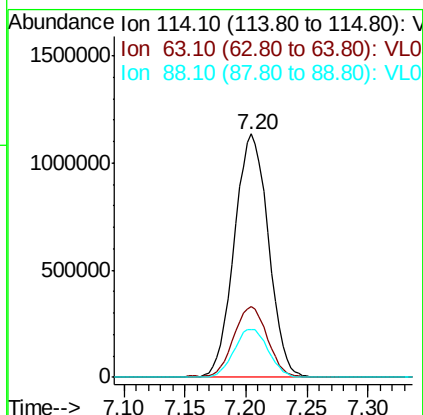
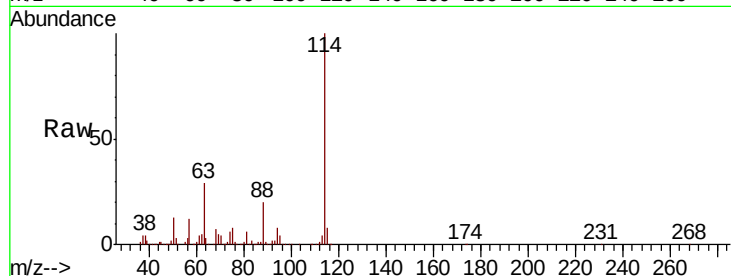
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1374
 Delta R.T. 0.00 min
 Lab File: VL034381.D
 Acq: 19 Nov 2019 15:26

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111919

Tot Ion	Ratio	Lower	Upper
114	100		
63	29.3	24.2	36.4
88	19.8	15.9	23.9

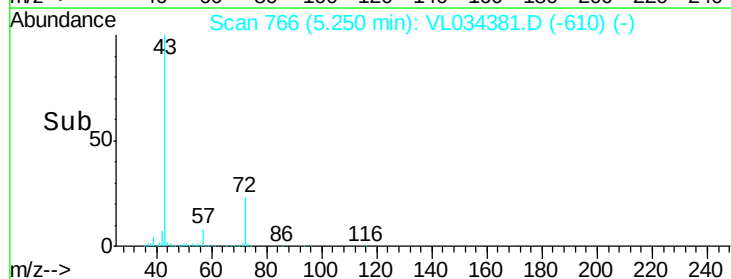
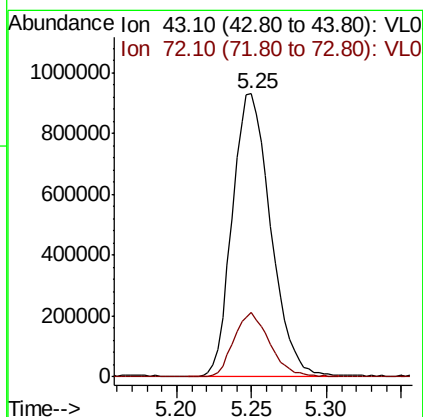
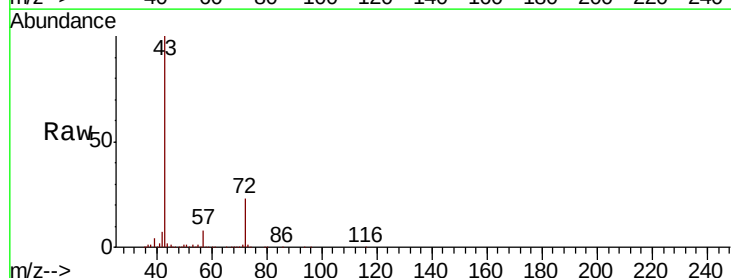
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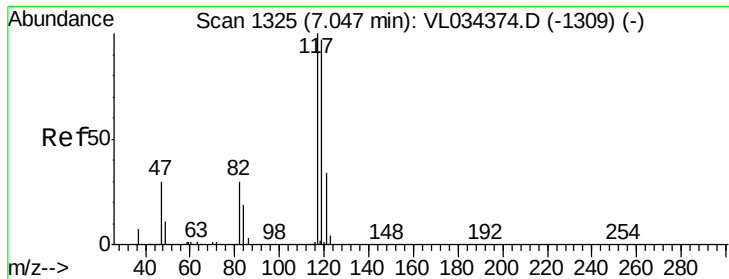
MMDadoda
 11/20/2019 3:53:41 PM



#34
 2-Butanone
 Concen: 9.185 ppbv
 RT: 5.25 min Scan# 766
 Delta R.T. 0.00 min
 Lab File: VL034381.D
 Acq: 19 Nov 2019 15:26

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.4	17.0	25.6





#35

Carbon Tetrachloride

Concen: 9.077 ppbv

RT: 7.04 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VL034381.D

Acq: 19 Nov 2019 15:26

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111919

Tot Ion:117 Resp: 1712905

Ion Ratio Lower Upper

117 100

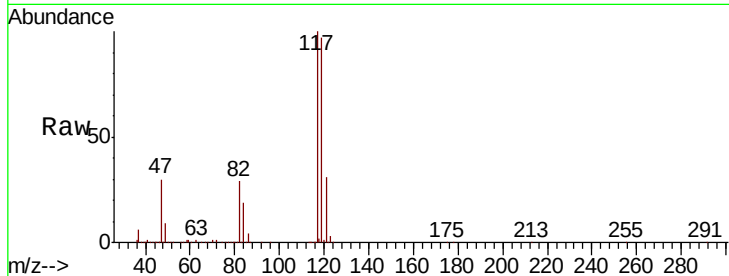
119 96.7 77.3 115.9

121 31.4 27.4 41.2

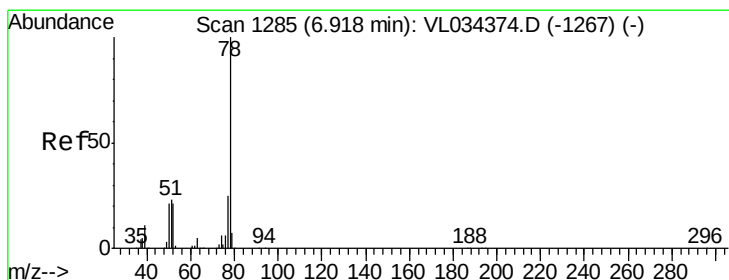
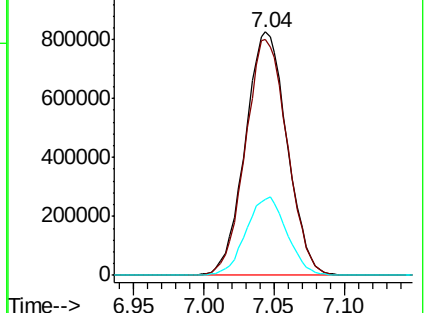
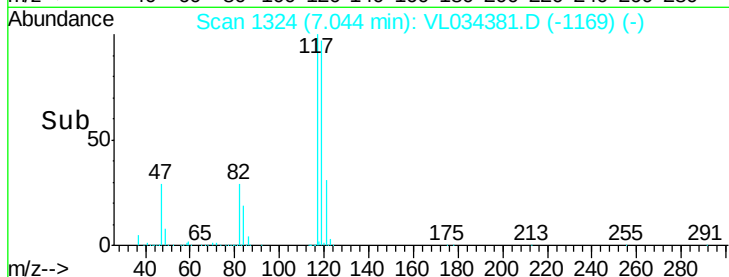
Manual Integrations
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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.476 ppbv

RT: 6.92 min Scan# 1284

Delta R.T. -0.00 min

Lab File: VL034381.D

Acq: 19 Nov 2019 15:26

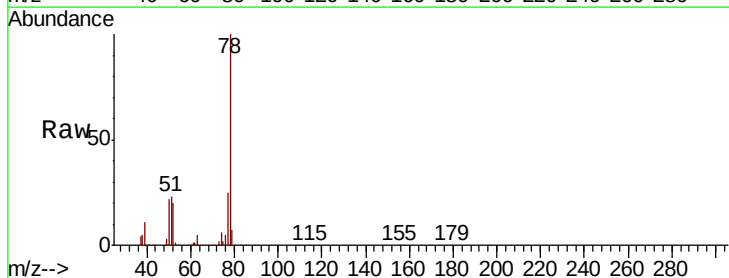
Tgt Ion: 78 Resp: 2079075

Ion Ratio Lower Upper

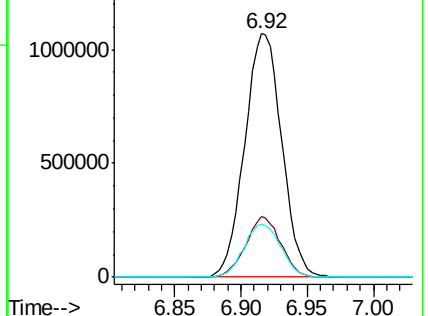
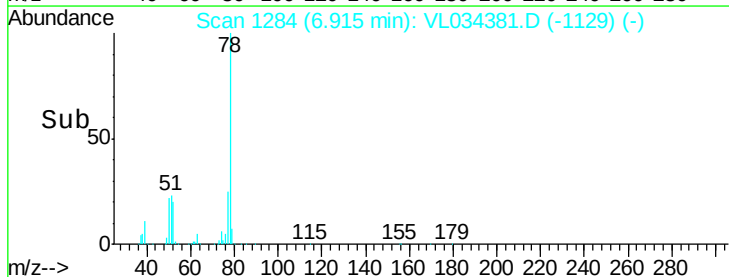
78 100

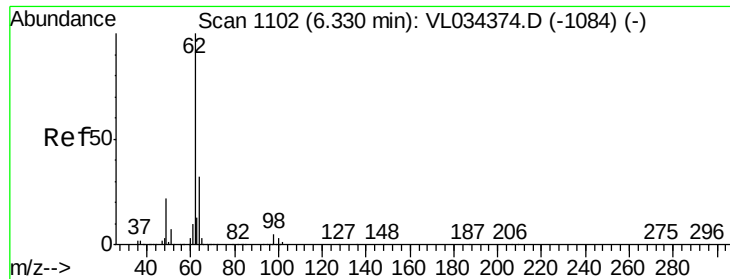
77 25.1 20.2 30.4

50 21.7 17.1 25.7



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





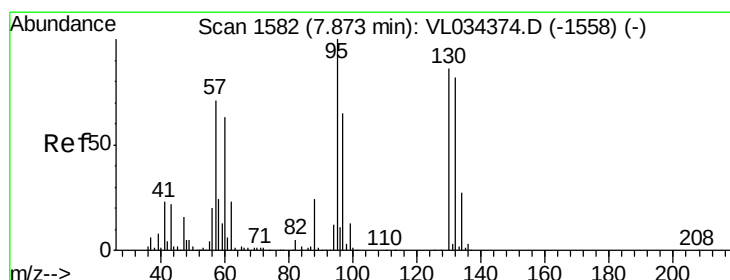
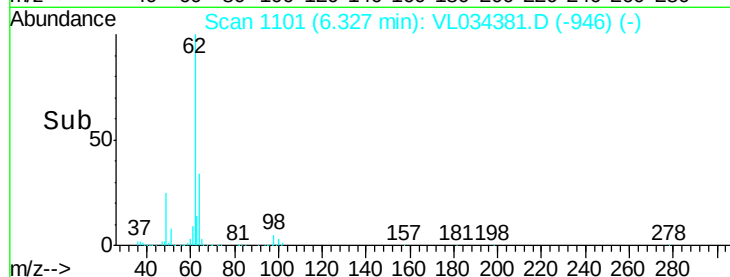
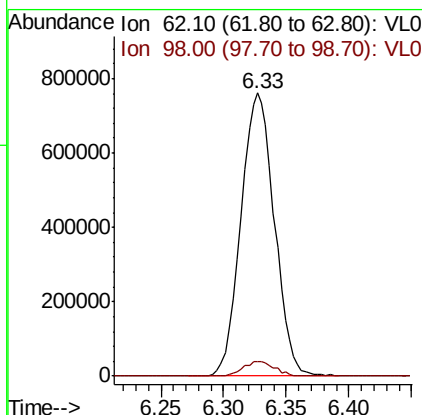
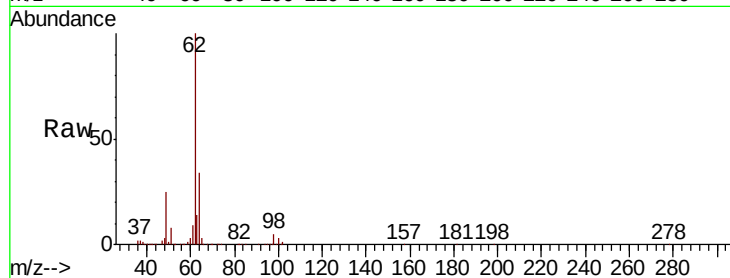
#37
1,2-Dichloroethane
Concen: 8.644 ppbv
RT: 6.33 min Scan# 1101
Delta R.T. -0.00 min
Lab File: VL034381.D
Acq: 19 Nov 2019 15:26

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111919

Tot Ion: 62 Resp: 1408872
Ion Ratio Lower Upper
62 100
98 5.1 3.8 5.8

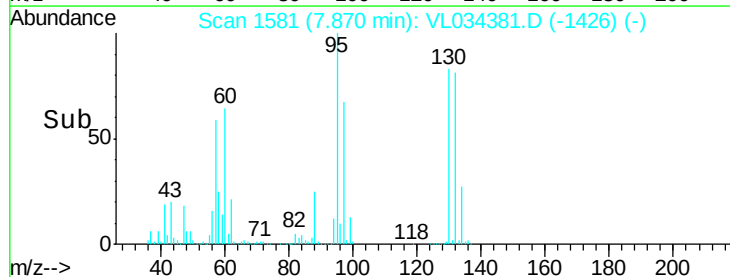
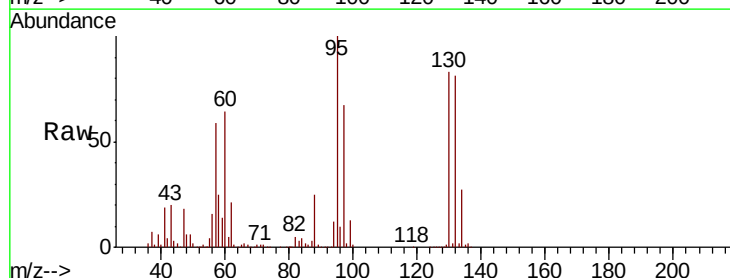
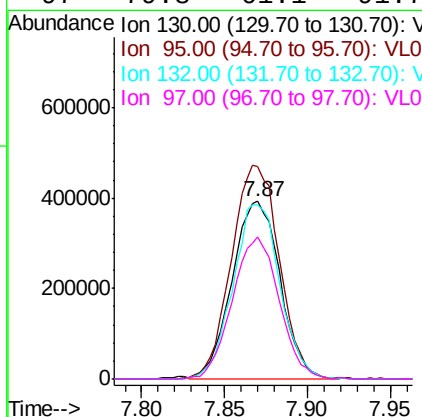
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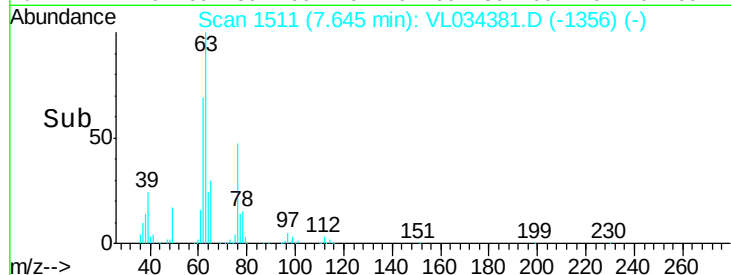
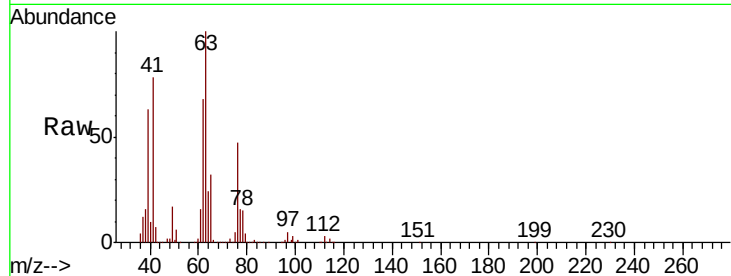
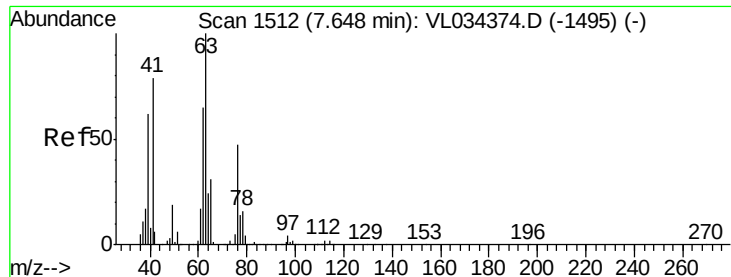
MMDadoda
11/20/2019 3:53:41 PM



#38
Trichloroethene
Concen: 8.726 ppbv
RT: 7.87 min Scan# 1581
Delta R.T. -0.00 min
Lab File: VL034381.D
Acq: 19 Nov 2019 15:26

Tgt Ion: 130 Resp: 785607
Ion Ratio Lower Upper
130 100
95 119.7 93.4 140.0
132 97.9 76.4 114.6
97 79.8 61.1 91.7





#39

1,2-Dichloropropane

Concen: 9.201 ppbv

RT: 7.65 min Scan# 1511

Delta R.T. -0.00 min

Lab File: VL034381.D

Acq: 19 Nov 2019 15:26

Tot Ion:	63	Resp:	855743
Ion Ratio	Lower	Upper	
63	100		
41	78.4	63.1	94.7
62	68.5	52.3	78.5

Instrument :

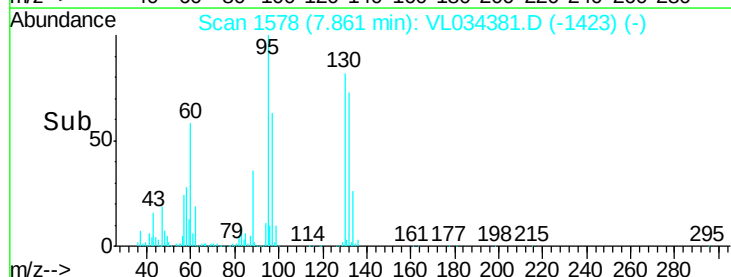
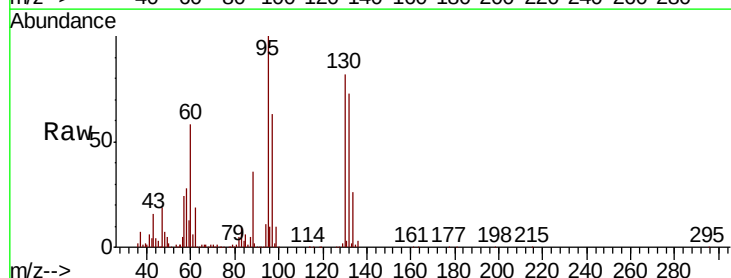
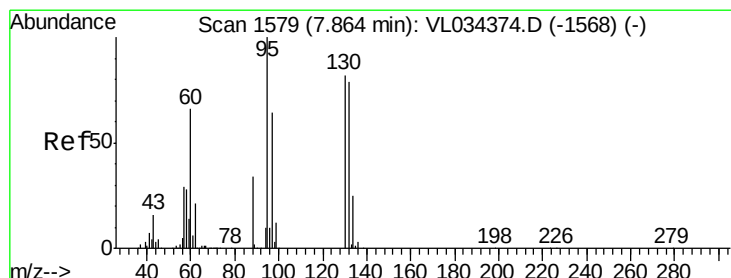
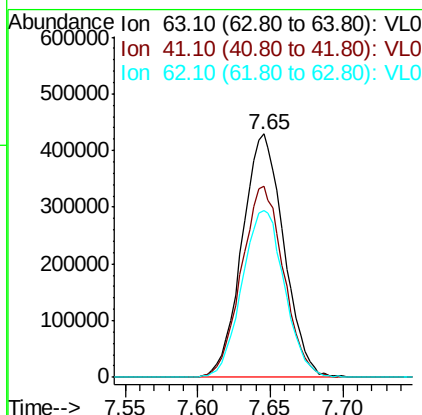
MSVOA_L

ClientSampleId :

ICVVL111919

Manual Integrations
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#40

1,4-Dioxane

Concen: 8.923 ppbv

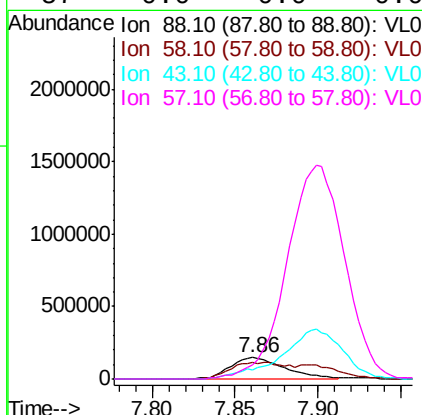
RT: 7.86 min Scan# 1578

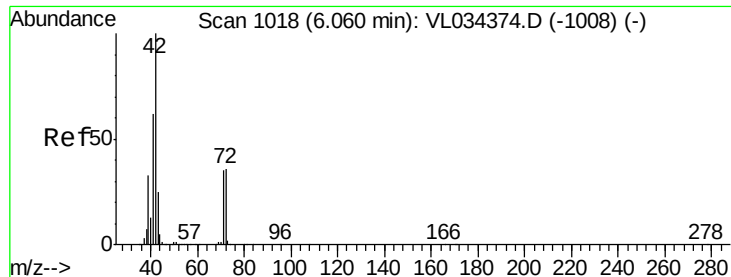
Delta R.T. -0.00 min

Lab File: VL034381.D

Acq: 19 Nov 2019 15:26

Tgt Ion:	88	Resp:	329470
Ion Ratio	Lower	Upper	
88	100		
58	136.1	109.5	164.3
43	0.0	0.0	0.0
57	0.0	0.0	0.0





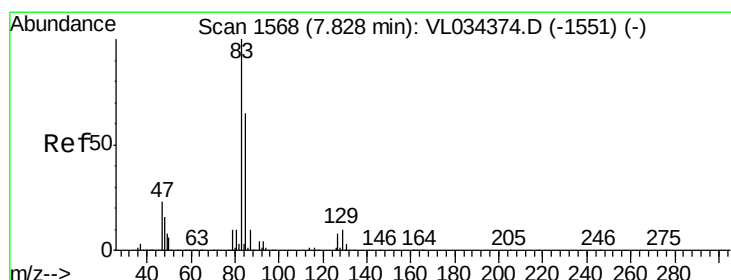
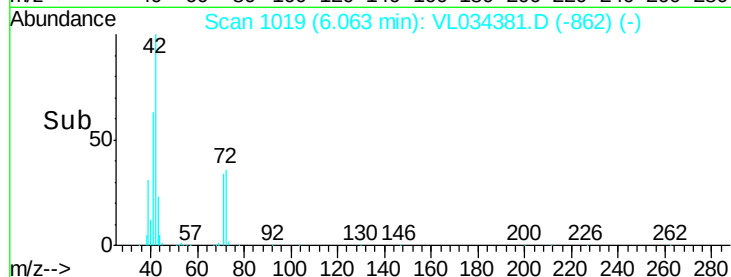
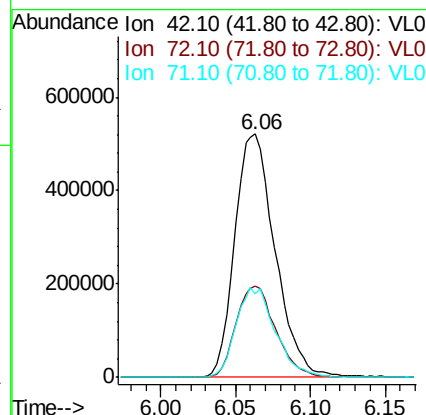
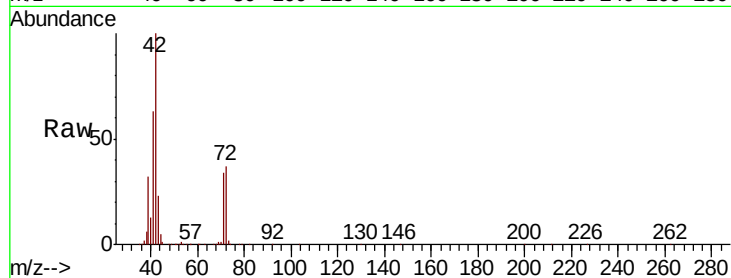
#41
Tetrahydrofuran
Concen: 9.615 ppbv
RT: 6.06 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VL034381.D
Acq: 19 Nov 2019 15:26

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111919

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.1	30.2	45.4
71	36.5	29.4	44.2

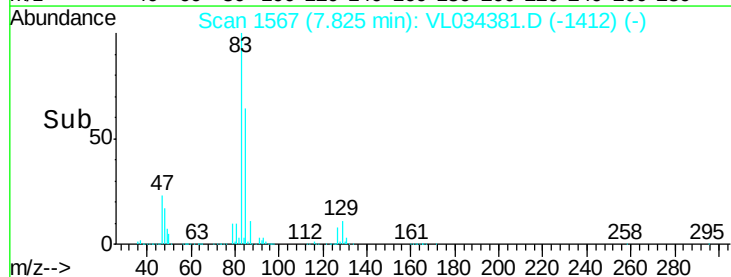
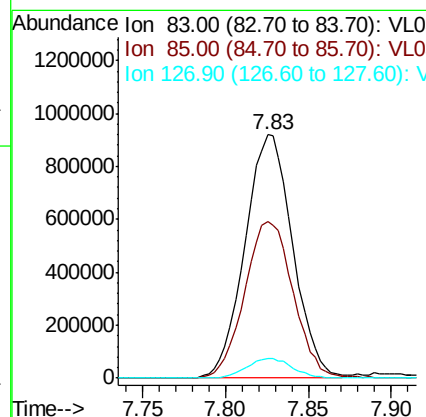
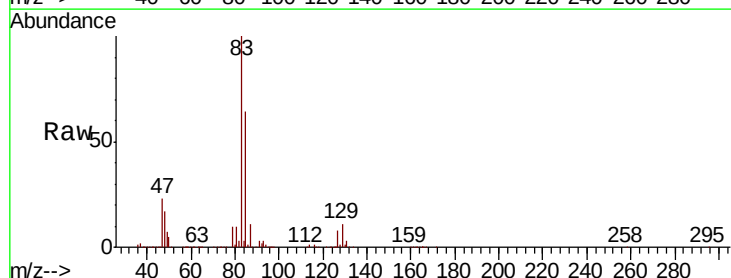
Manual Integrations
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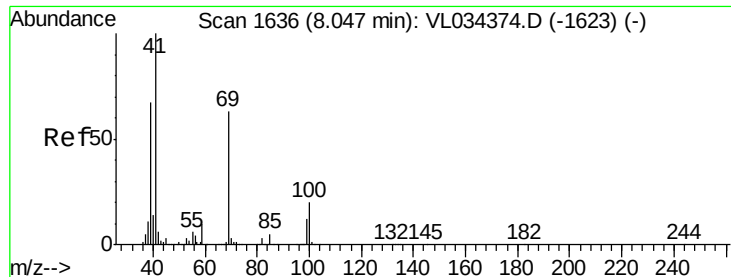
MMDadoda
11/20/2019 3:53:41 PM



#42
Bromodichloromethane
Concen: 8.992 ppbv
RT: 7.83 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VL034381.D
Acq: 19 Nov 2019 15:26

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.3	78.5
127	8.1	6.1	9.1





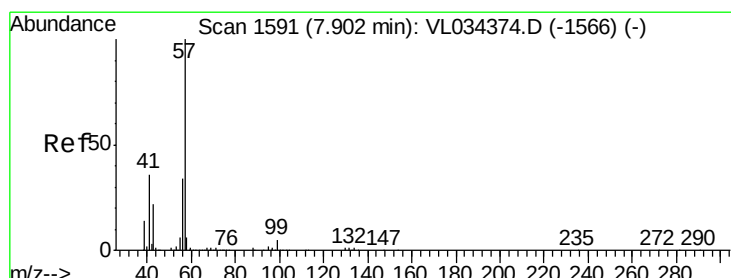
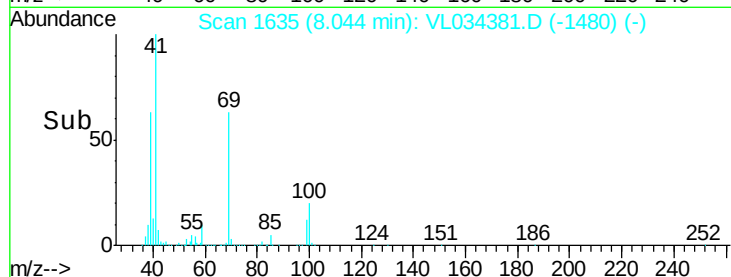
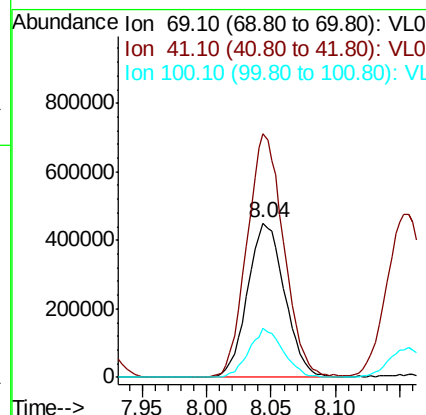
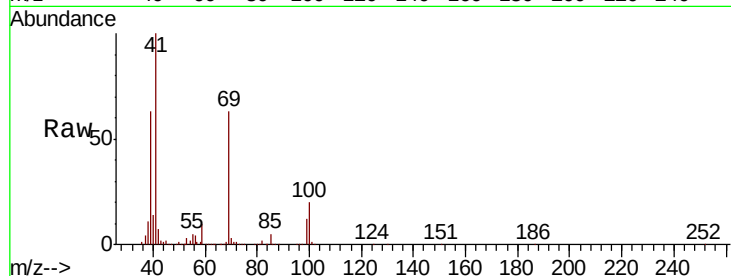
#43
Methyl Methacrylate
Concen: 9.901 ppbv
RT: 8.04 min Scan# 1635
Delta R.T. -0.00 min
Lab File: VL034381.D
Acq: 19 Nov 2019 15:26

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111919

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	156.5	127.4	191.2	
100	29.2	24.2	36.4	

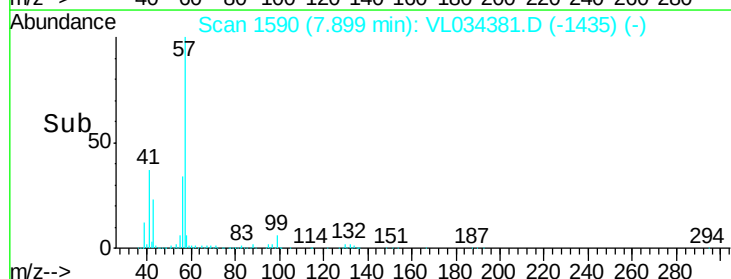
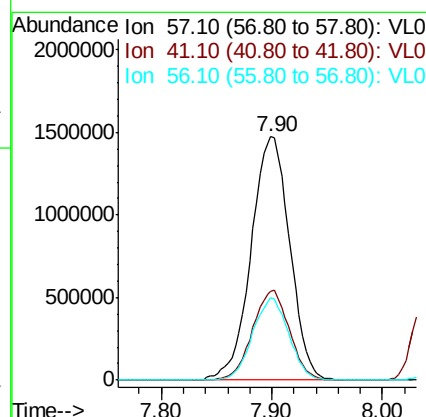
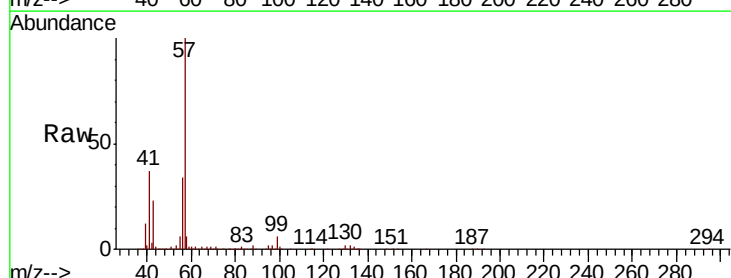
Manual Integrations
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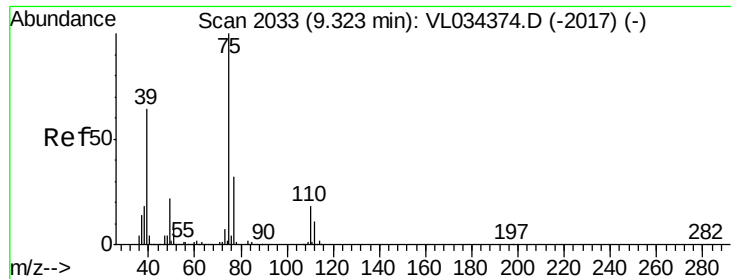
MMDadoda
11/20/2019 3:53:41 PM



#44
2,2,4-Trimethylpentane
Concen: 8.911 ppbv
RT: 7.90 min Scan# 1590
Delta R.T. -0.00 min
Lab File: VL034381.D
Acq: 19 Nov 2019 15:26

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	35.1	28.6	42.8	
56	31.7	25.3	37.9	





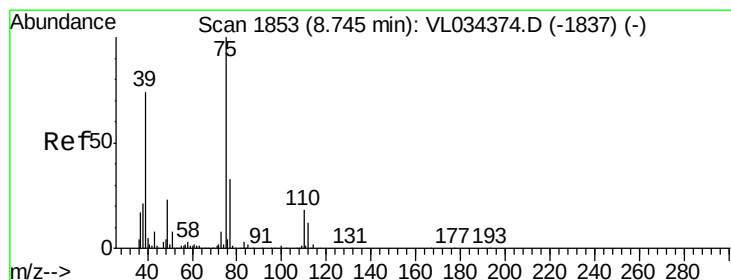
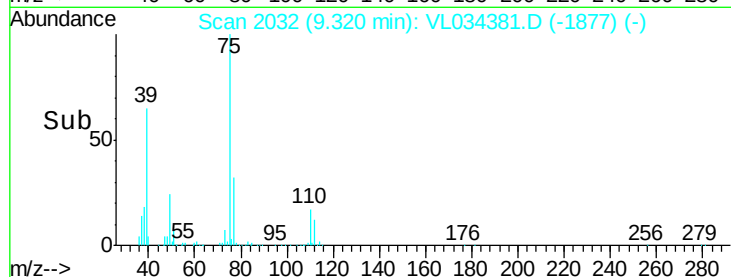
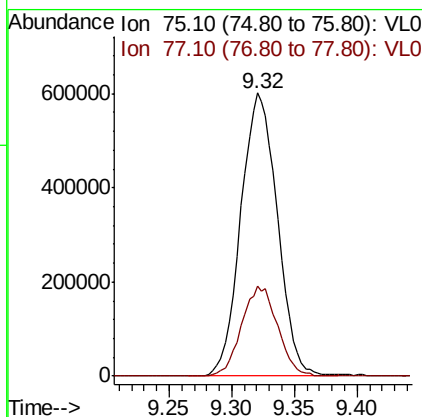
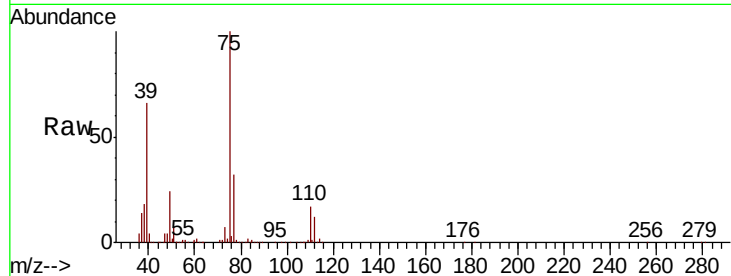
#45
t-1,3-Dichloropropene
Concen: 10.445 ppbv
RT: 9.32 min Scan# 2032
Delta R.T. -0.00 min
Lab File: VL034381.D
Acq: 19 Nov 2019 15:26

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111919

Tot Ion: 75 Resp: 1218936
Ion Ratio Lower Upper
75 100
77 32.0 25.4 38.2

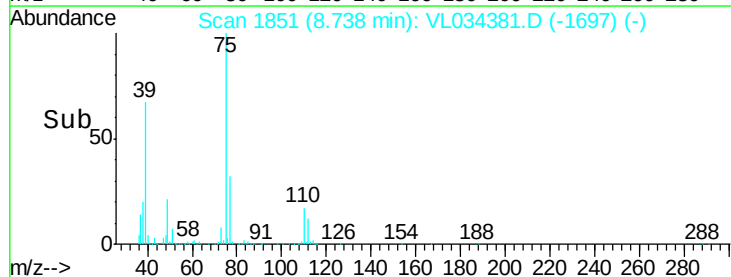
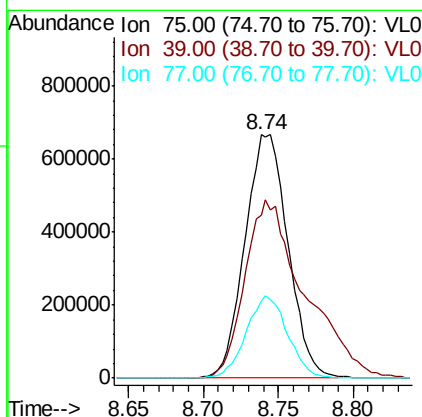
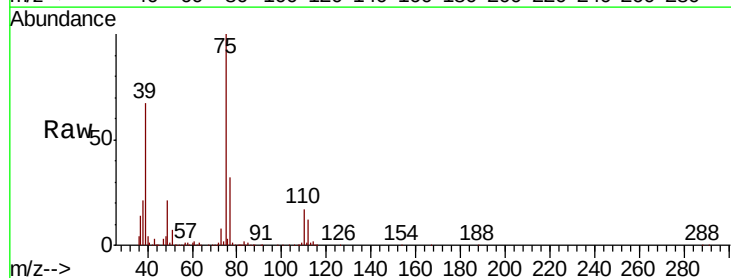
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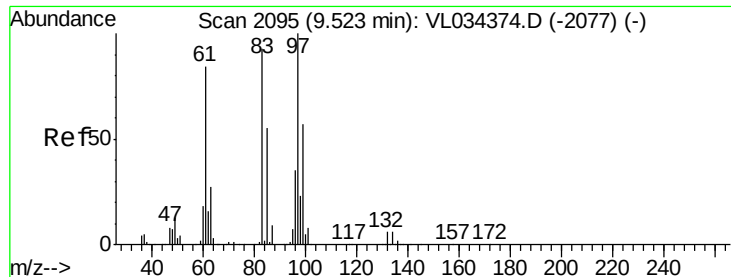
MMDadoda
11/20/2019 3:53:41 PM



#46
cis-1,3-Dichloropropene
Concen: 10.208 ppbv
RT: 8.74 min Scan# 1851
Delta R.T. -0.01 min
Lab File: VL034381.D
Acq: 19 Nov 2019 15:26

Tgt Ion: 75 Resp: 1338162
Ion Ratio Lower Upper
75 100
39 67.0 59.0 88.6
77 31.7 26.4 39.6





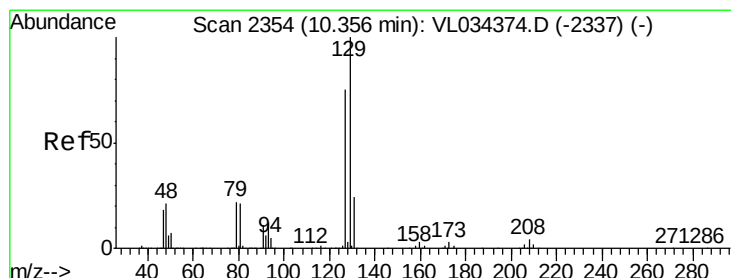
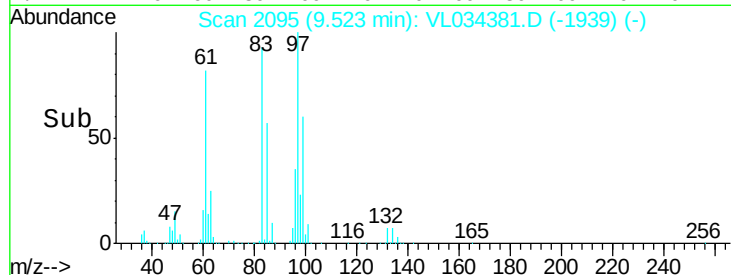
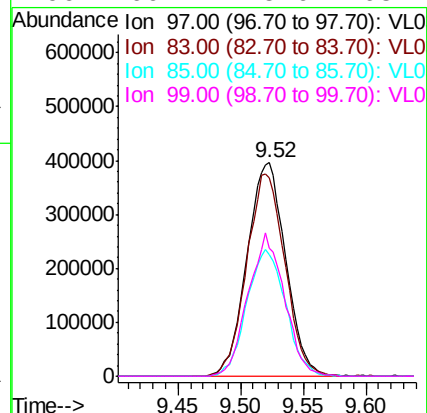
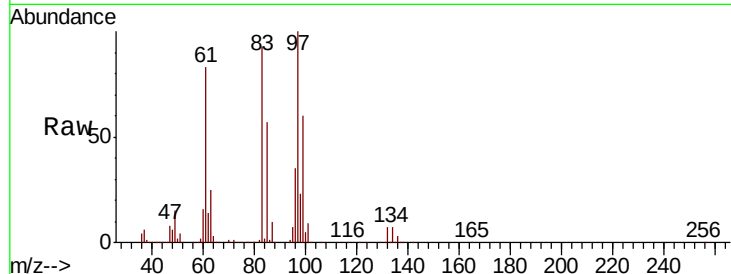
#47
 1,1,2-Trichloroethane
 Concen: 9.025 ppbv
 RT: 9.52 min Scan# 2095
 Delta R.T. 0.00 min
 Lab File: VL034381.D
 Acq: 19 Nov 2019 15:26

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111919

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		848532		
83	92.8	74.6	112.0		
85	57.2	43.8	65.8		
99	60.1	45.6	68.4		

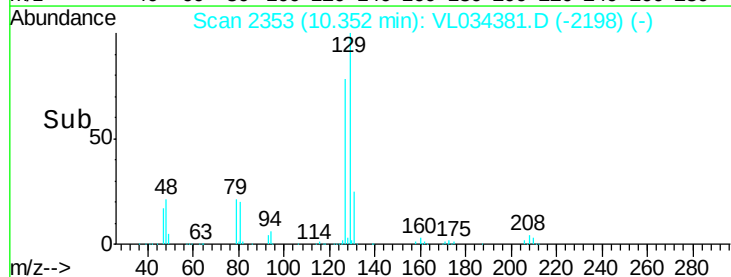
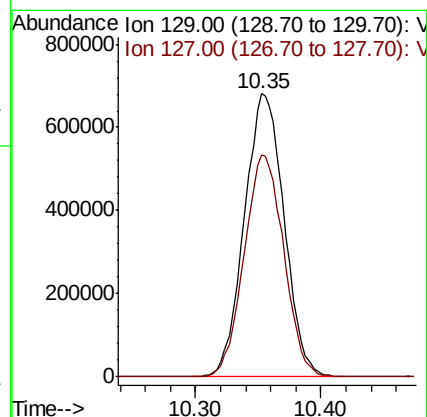
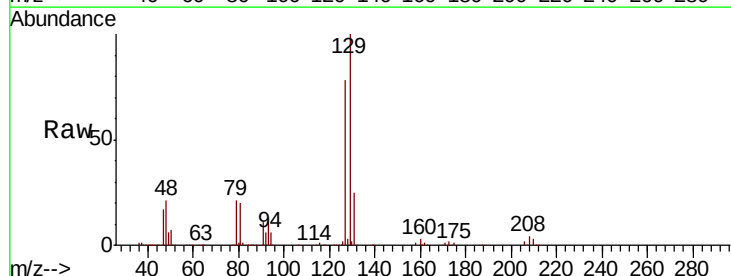
Manual Integrations
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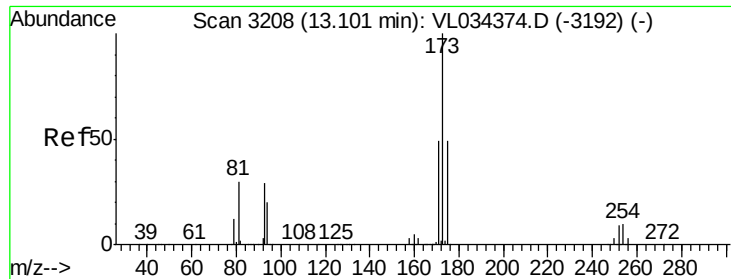
MMDadoda
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#48
 Dibromochloromethane
 Concen: 9.281 ppbv
 RT: 10.35 min Scan# 2353
 Delta R.T. -0.00 min
 Lab File: VL034381.D
 Acq: 19 Nov 2019 15:26

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		1498288		
127	78.3	39.1	117.5		





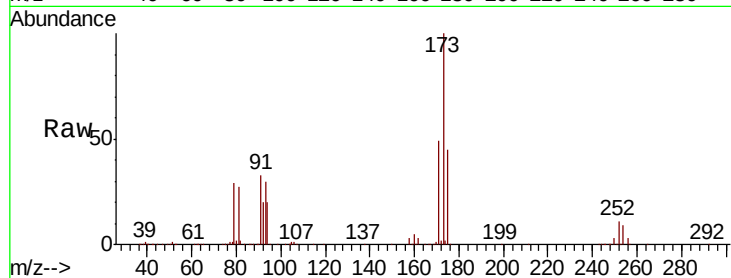
#49
Bromoform
Concen: 9.198 ppbv m
RT: 13.10 min Scan# 3207
Delta R.T. -0.00 min
Lab File: VL034381.D
Acq: 19 Nov 2019 15:26

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111919

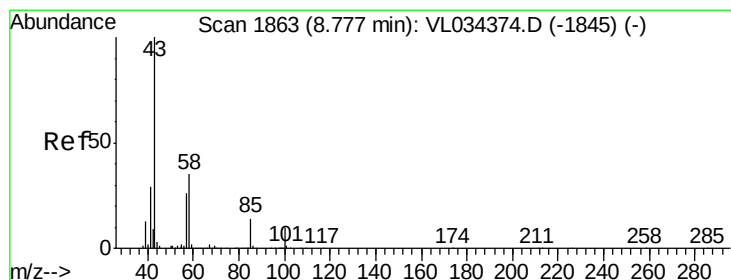
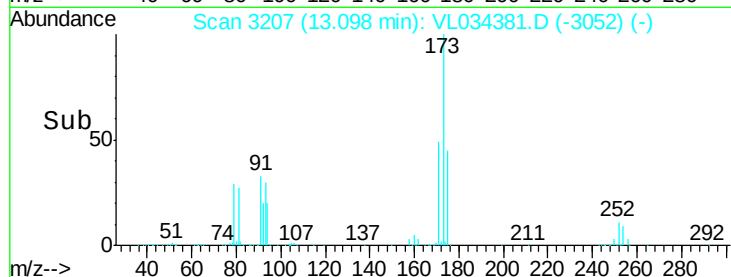
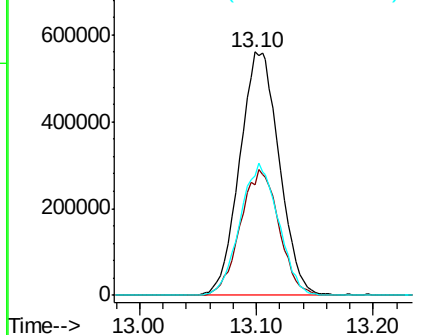
Tot Ion:173 Resp: 1325580
Ion Ratio Lower Upper
173 100
175 50.2 39.3 58.9
171 52.8 42.4 63.6

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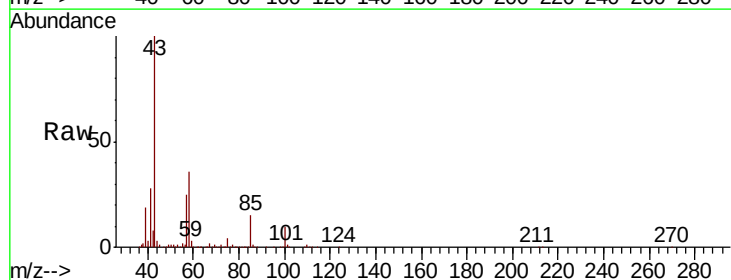


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

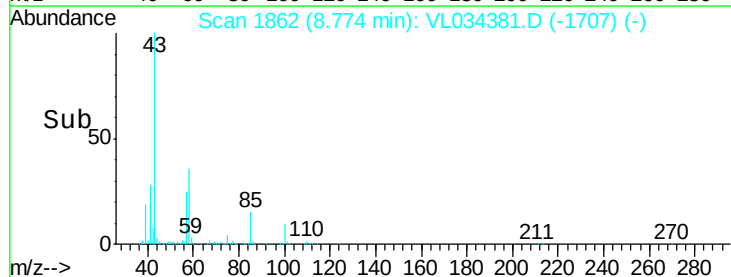
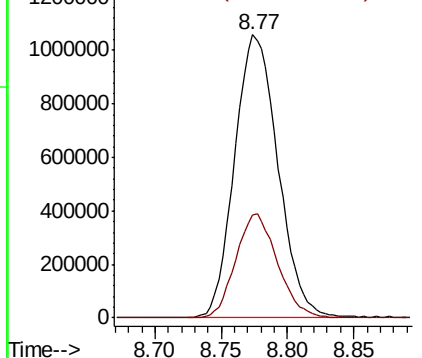


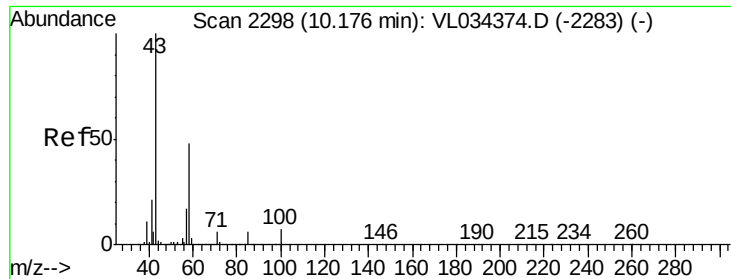
#50
4-Methyl-2-Pentanone
Concen: 9.200 ppbv
RT: 8.77 min Scan# 1862
Delta R.T. -0.00 min
Lab File: VL034381.D
Acq: 19 Nov 2019 15:26

Tgt Ion: 43 Resp: 2404784
Ion Ratio Lower Upper
43 100
58 35.4 27.9 41.9



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





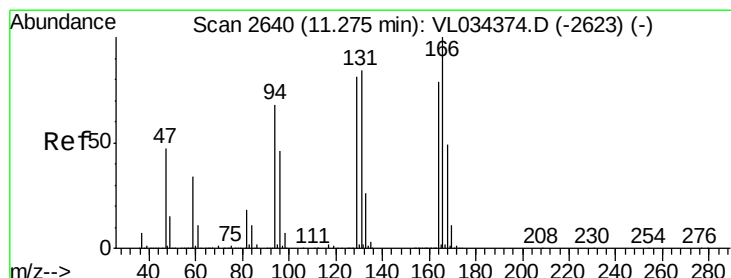
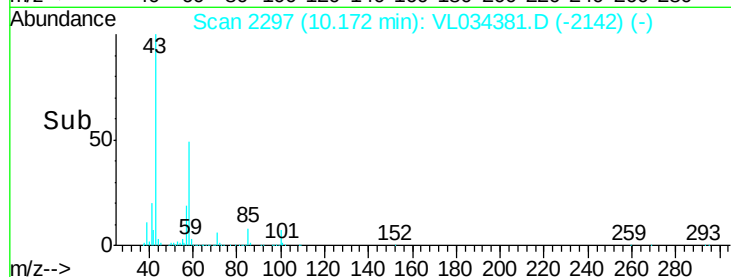
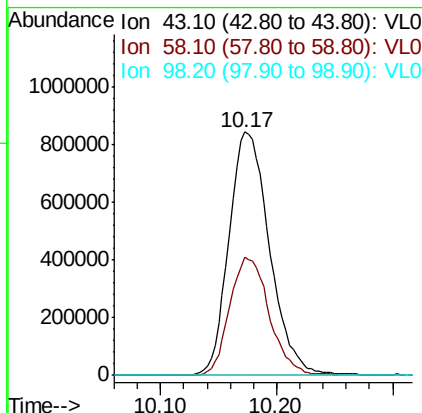
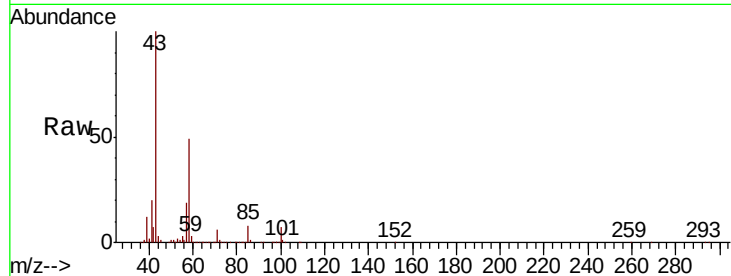
#51
2-Hexanone
Concen: 9.328 ppbv
RT: 10.17 min Scan# 2297
Delta R.T. -0.00 min
Lab File: VL034381.D
Acq: 19 Nov 2019 15:26

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111919

Tot Ion: 43 Resp: 2042388
Ion Ratio Lower Upper
43 100
58 47.9 38.2 57.4
98 0.1 0.2 0.2#

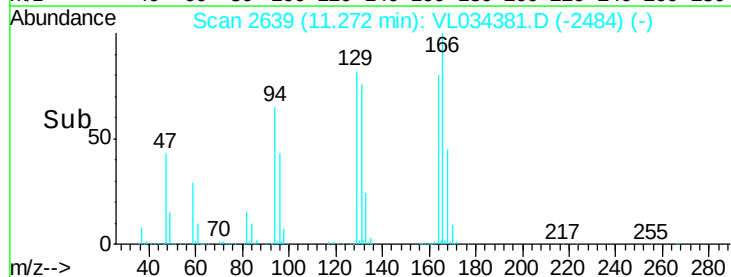
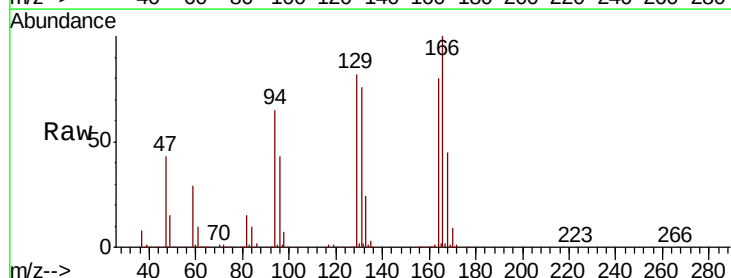
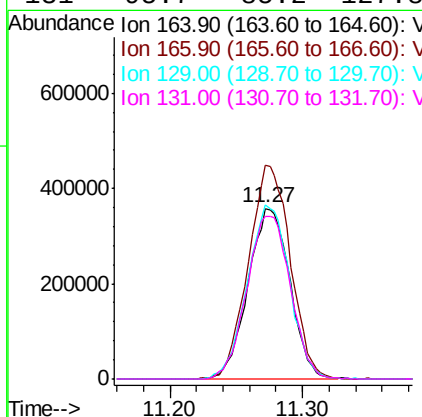
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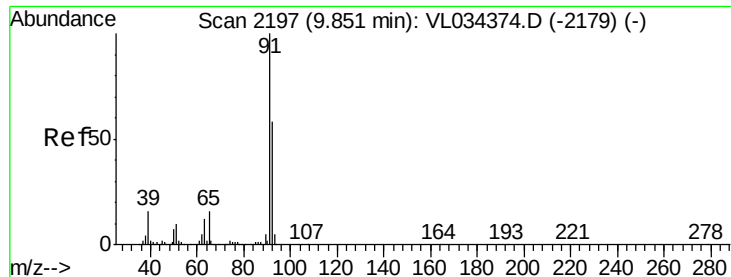
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#52
Tetrachloroethene
Concen: 8.290 ppbv
RT: 11.27 min Scan# 2639
Delta R.T. -0.00 min
Lab File: VL034381.D
Acq: 19 Nov 2019 15:26

Tgt Ion: 164 Resp: 786960
Ion Ratio Lower Upper
164 100
166 125.4 101.7 152.5
129 102.5 82.6 123.8
131 95.7 85.2 127.8





#53

Toluene

Concen: 9.513 ppbv

RT: 9.85 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VL034381.D

Acq: 19 Nov 2019 15:26

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111919

Tot Ion: 91 Resp: 2370710

Ion Ratio Lower Upper

91 100

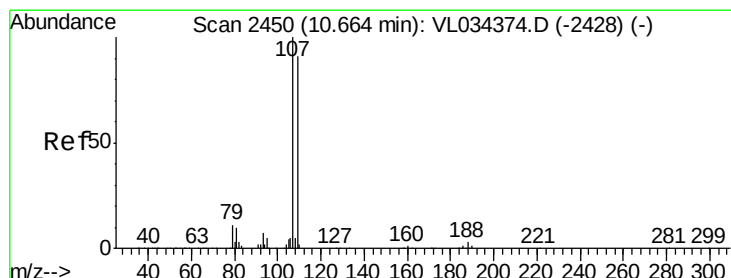
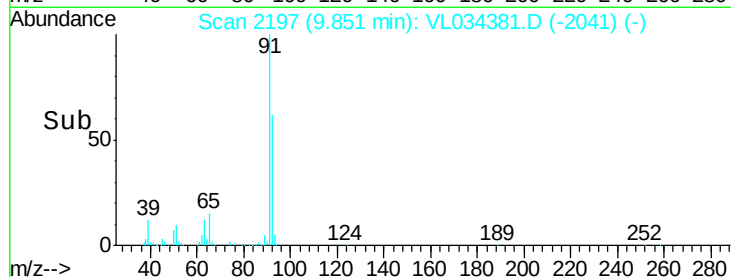
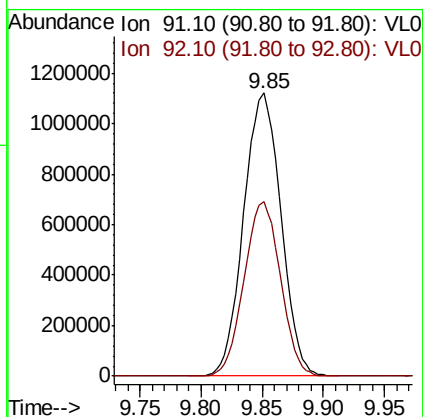
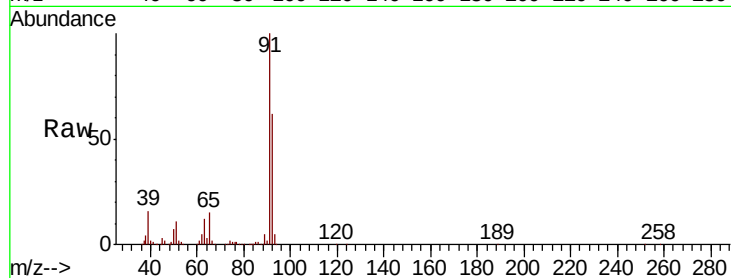
92 60.1 47.9 71.9

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 9.080 ppbv

RT: 10.66 min Scan# 2449

Delta R.T. -0.00 min

Lab File: VL034381.D

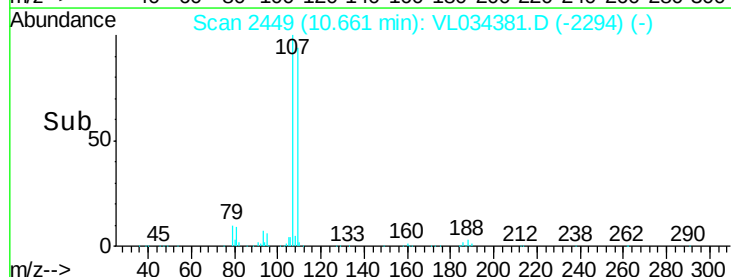
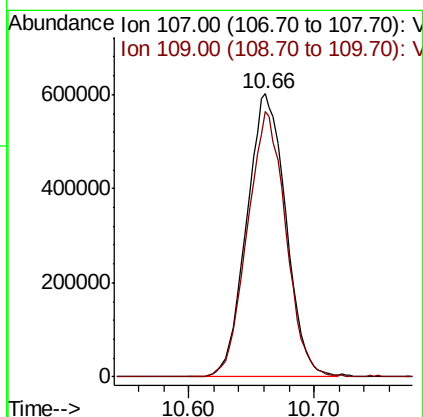
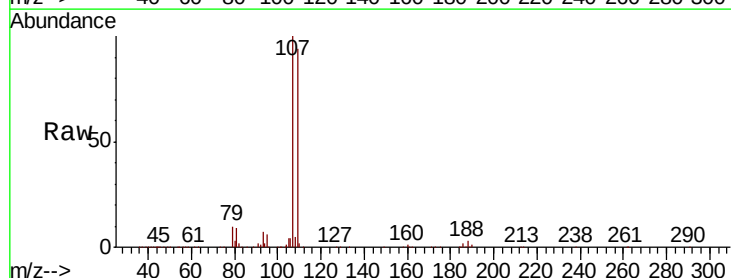
Acq: 19 Nov 2019 15:26

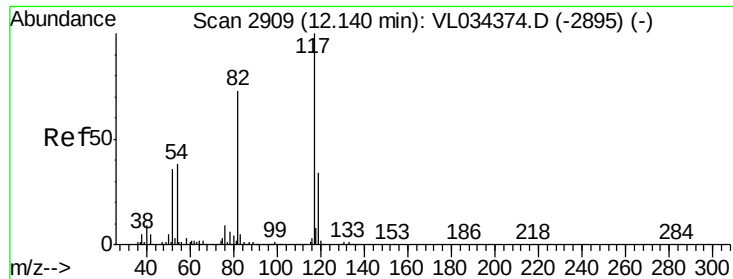
Tgt Ion: 107 Resp: 1308885

Ion Ratio Lower Upper

107 100

109 93.9 73.0 109.4





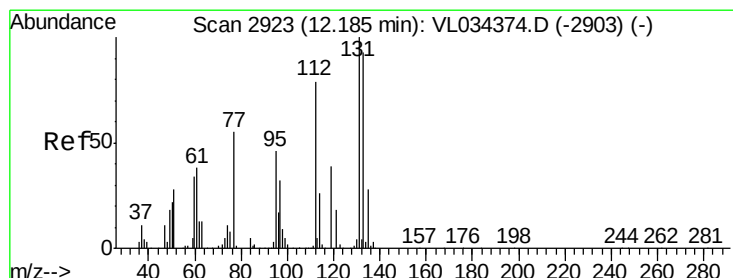
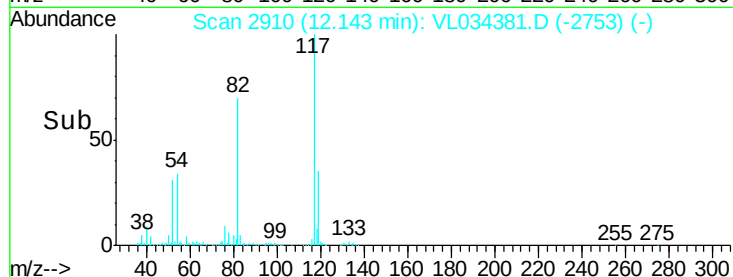
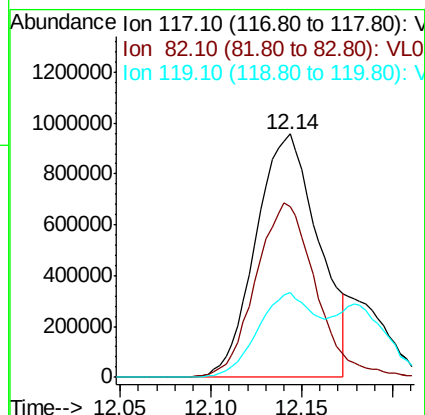
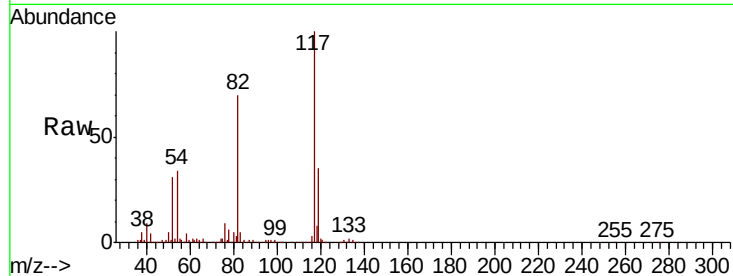
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.14 min Scan# 2910
Delta R.T. 0.00 min
Lab File: VL034381.D
Acq: 19 Nov 2019 15:26

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111919

Tot Ion	Ratio	Lower	Upper
117	100		
82	69.4	57.5	86.3
119	32.2	25.4	38.2

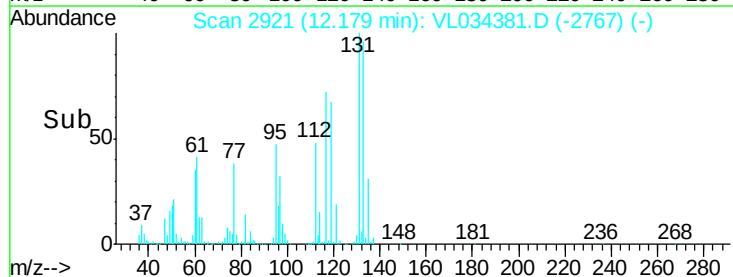
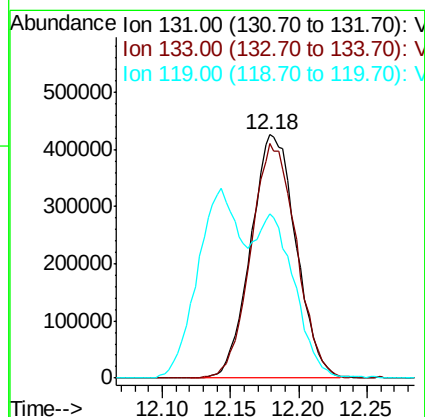
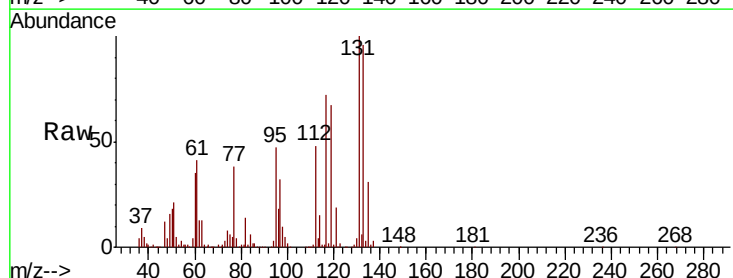
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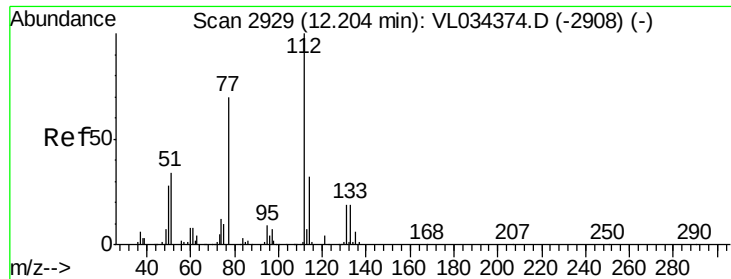
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.738 ppbv
RT: 12.18 min Scan# 2921
Delta R.T. -0.01 min
Lab File: VL034381.D
Acq: 19 Nov 2019 15:26

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.8	76.2	114.2
119	135.4	44.6	67.0#





#57

Chlorobenzene

Concen: 8.430 ppbv

RT: 12.20 min Scan# 2928

Delta R.T. -0.00 min

Lab File: VL034381.D

Acq: 19 Nov 2019 15:26

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111919

Tot Ion:112 Resp: 1750102

Ion Ratio Lower Upper

112 100

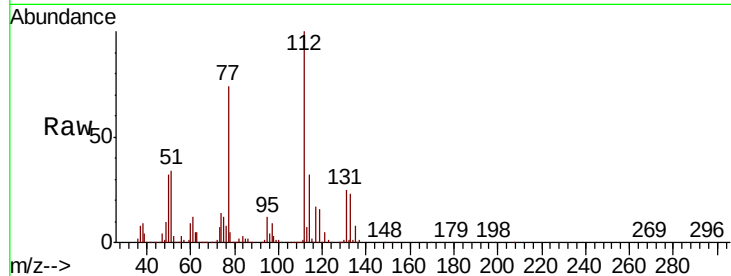
77 73.9 57.1 85.7

114 32.1 28.5 34.9

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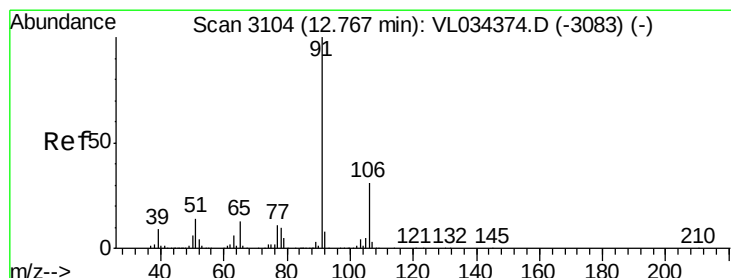
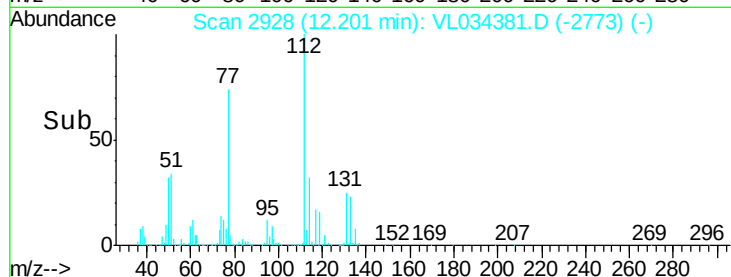
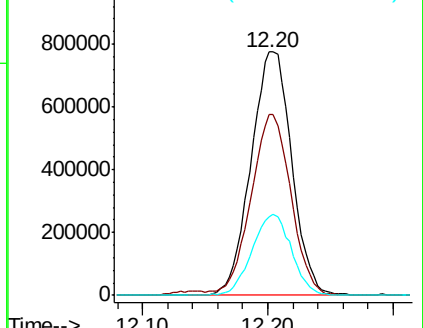
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 8.945 ppbv

RT: 12.77 min Scan# 3104

Delta R.T. 0.00 min

Lab File: VL034381.D

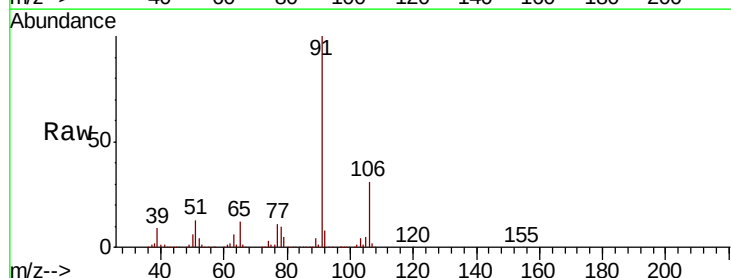
Acq: 19 Nov 2019 15:26

Tgt Ion: 91 Resp: 3187900

Ion Ratio Lower Upper

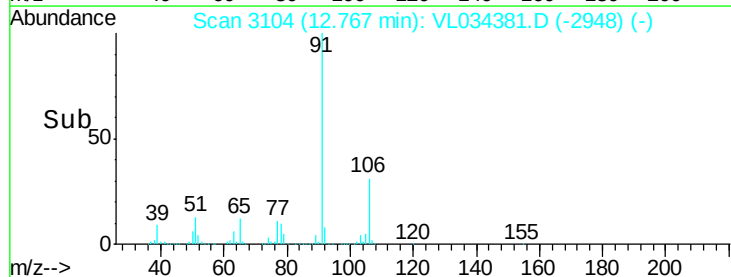
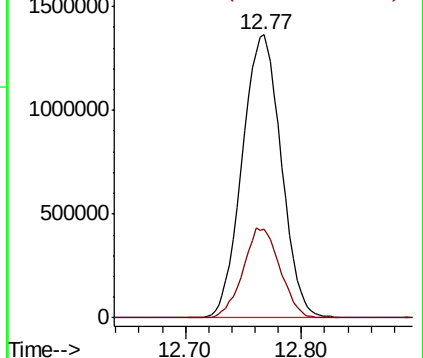
91 100

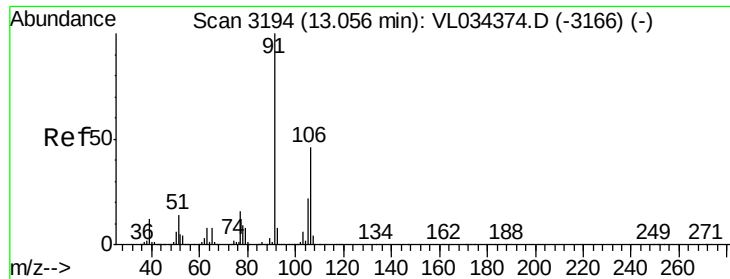
106 31.3 24.8 37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





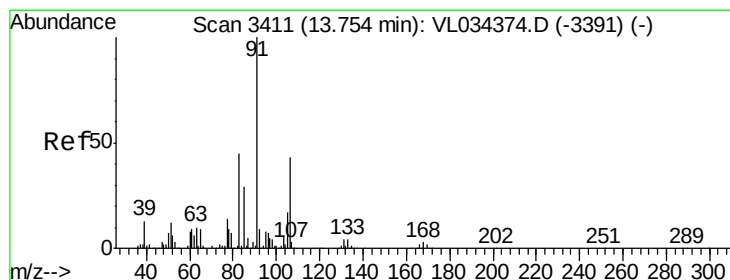
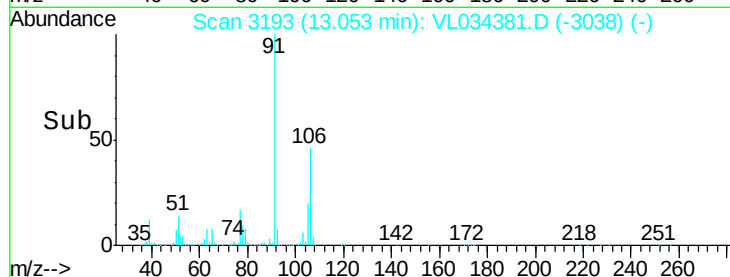
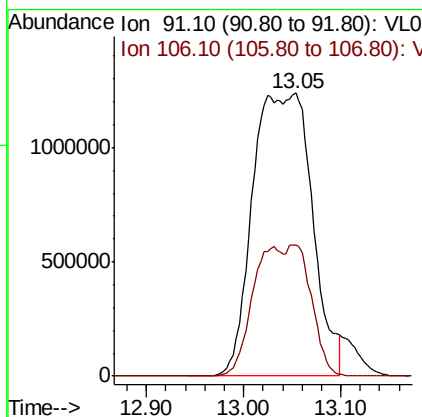
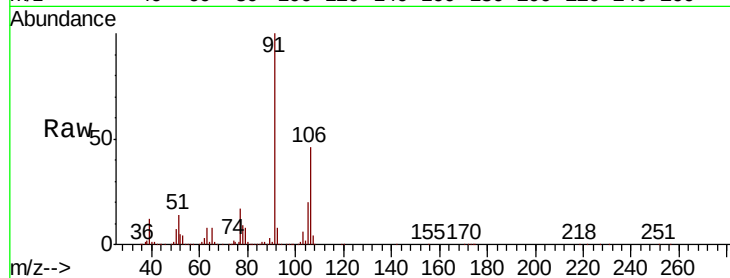
#59
m/p-Xylene
Concen: 16.987 ppbv m
RT: 13.05 min Scan# 3193
Delta R.T. -0.00 min
Lab File: VL034381.D
Acq: 19 Nov 2019 15:26

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111919

Tot Ion: 91 Resp: 5233183
Ion Ratio Lower Upper
91 100
106 44.3 34.6 51.8

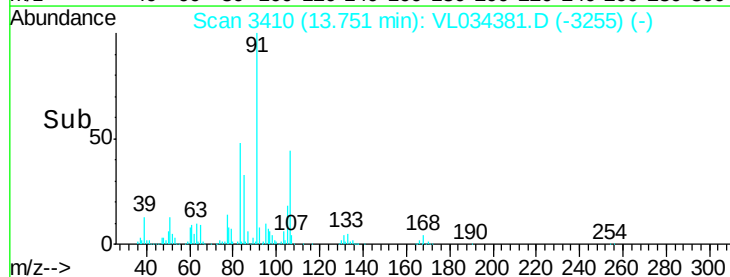
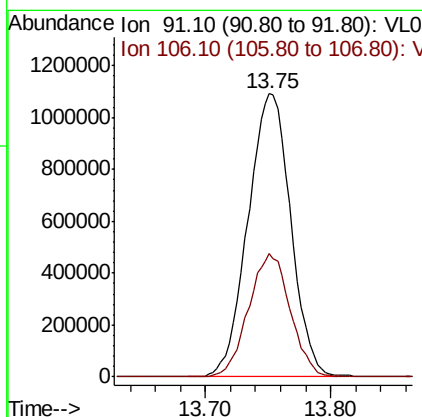
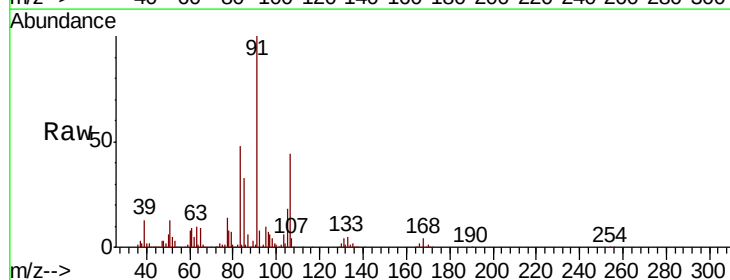
Manual Integrations
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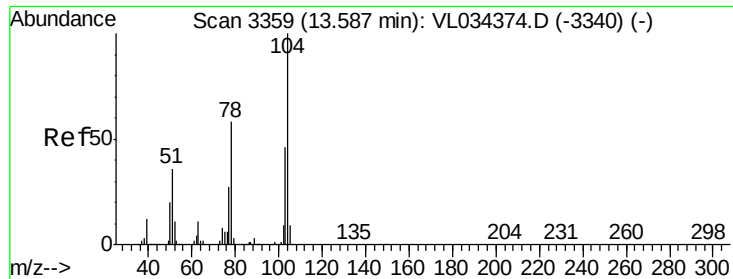
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#60
o-Xylene
Concen: 8.484 ppbv
RT: 13.75 min Scan# 3410
Delta R.T. -0.00 min
Lab File: VL034381.D
Acq: 19 Nov 2019 15:26

Tgt Ion: 91 Resp: 2584109
Ion Ratio Lower Upper
91 100
106 42.6 21.3 64.0





#61

Stvrene

Concen: 8.920 ppbv

RT: 13.59 min Scan# 3359

Delta R.T. 0.00 min

Lab File: VL034381.D

Acq: 19 Nov 2019 15:26

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111919

Tot Ion:104 Resp: 1959228

Ion Ratio Lower Upper

104 100

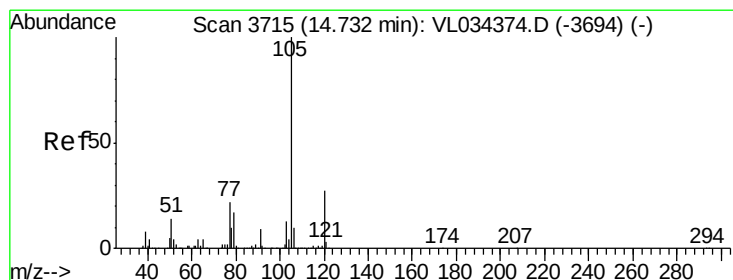
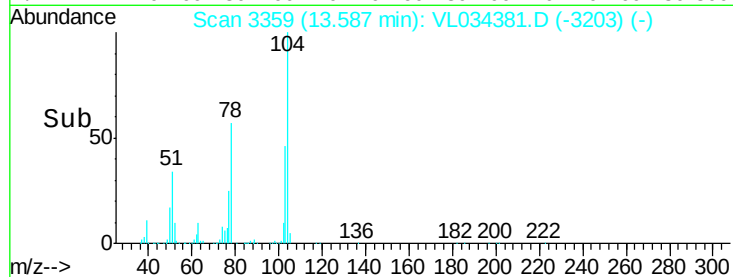
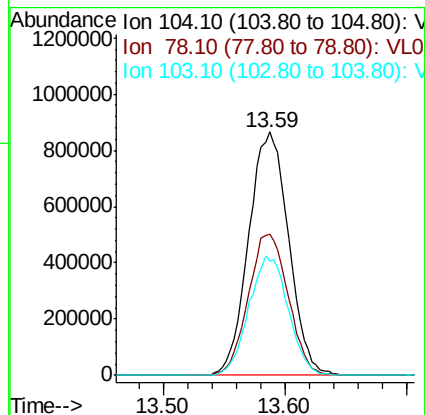
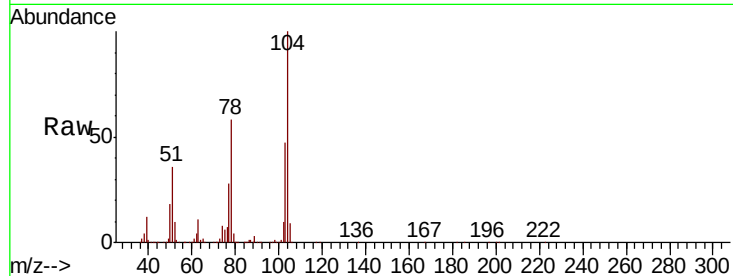
78 58.3 47.6 71.4

103 48.2 38.6 57.8

Manual Integrations
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#62

Isopropylbenzene

Concen: 8.402 ppbv

RT: 14.73 min Scan# 3714

Delta R.T. -0.00 min

Lab File: VL034381.D

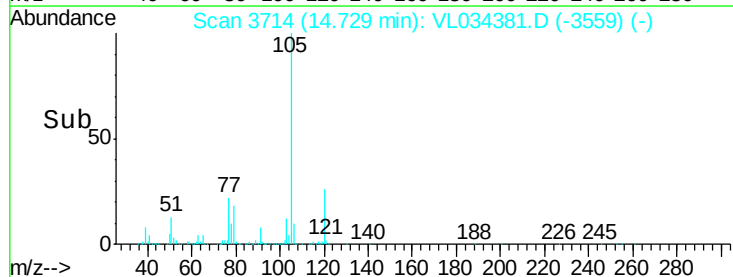
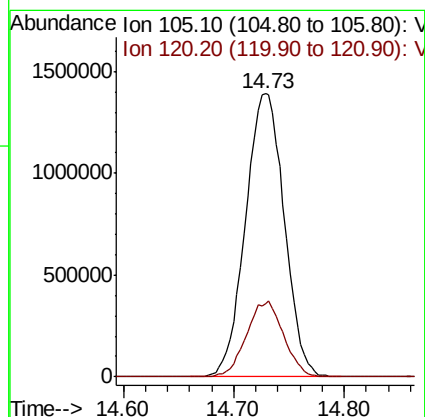
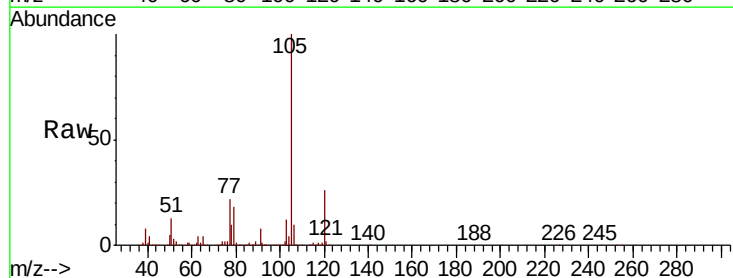
Acq: 19 Nov 2019 15:26

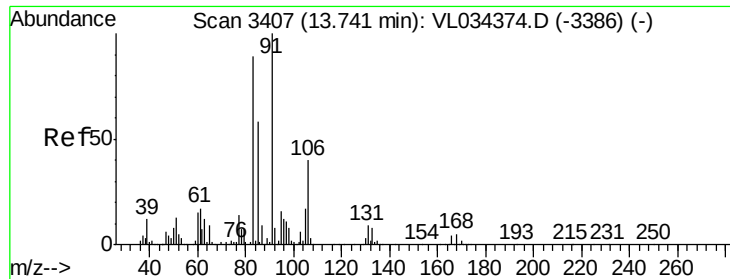
Tgt Ion:105 Resp: 3384458

Ion Ratio Lower Upper

105 100

120 25.6 20.2 30.4





#63

1,1,2,2-Tetrachloroethane

Concen: 7.542 ppbv

RT: 13.73 min Scan# 3405

Delta R.T. -0.01 min

Lab File: VL034381.D

Acq: 19 Nov 2019 15:26

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111919

Tot Ion: 83 Resp: 1726854

Ion Ratio Lower Upper

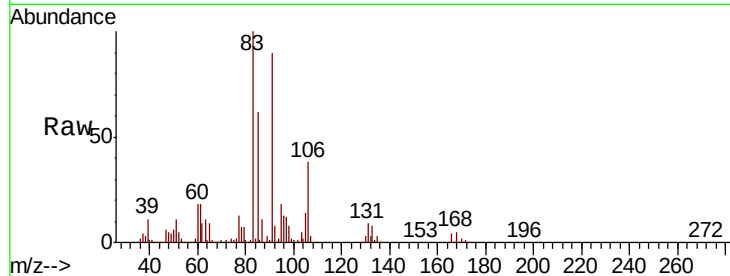
83 100

131 9.4 4.9 14.7

85 65.7 32.6 97.8

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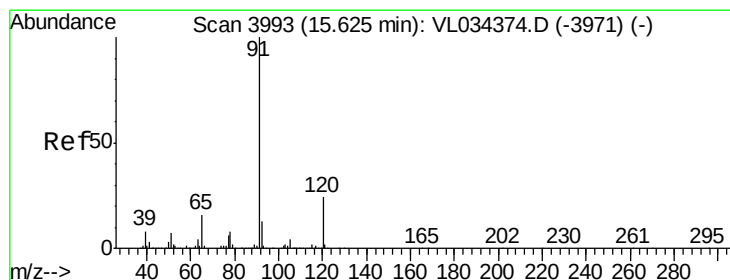
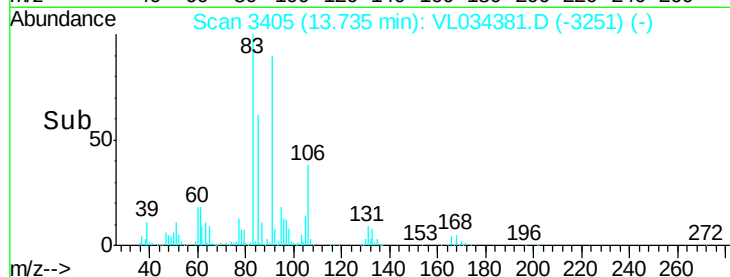
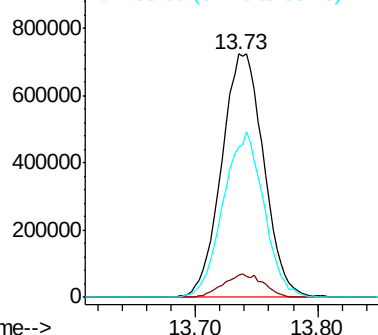
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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 8.359 ppbv

RT: 15.62 min Scan# 3992

Delta R.T. -0.00 min

Lab File: VL034381.D

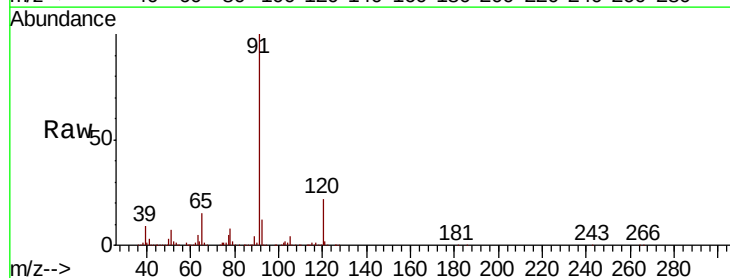
Acq: 19 Nov 2019 15:26

Tgt Ion: 120 Resp: 874494

Ion Ratio Lower Upper

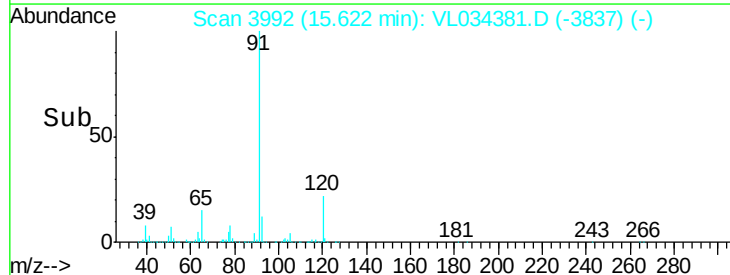
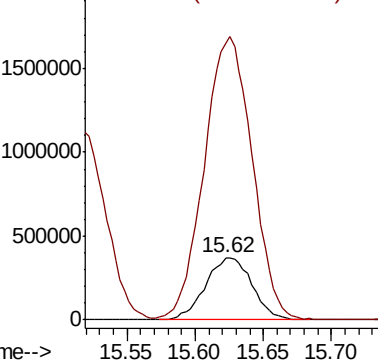
120 100

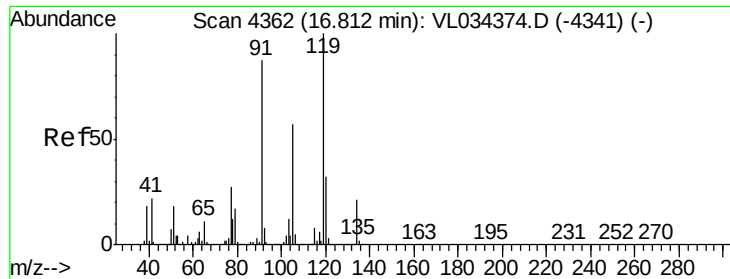
91 470.8 370.9 556.3



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 8.090 ppbv

RT: 16.81 min Scan# 4361

Delta R.T. -0.00 min

Lab File: VL034381.D

Acq: 19 Nov 2019 15:26

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111919

Tot Ion:119 Resp: 2927392

Ion Ratio Lower Upper

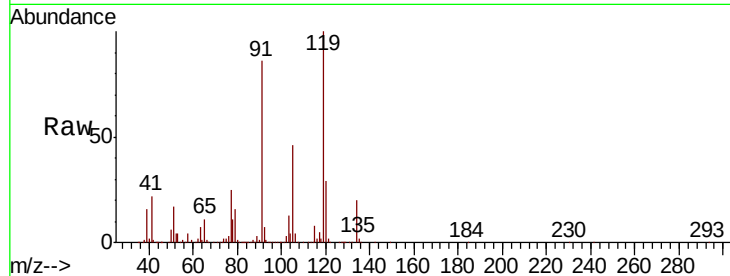
119 100

91 89.1 71.6 107.4

134 20.1 15.9 23.9

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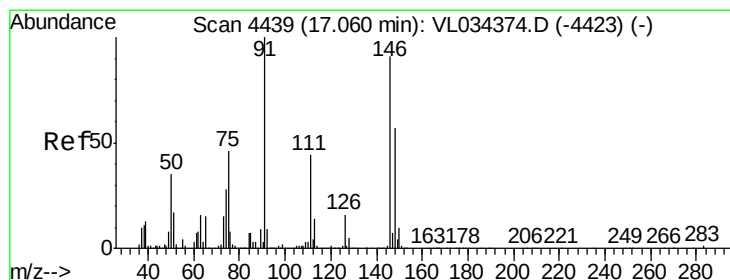
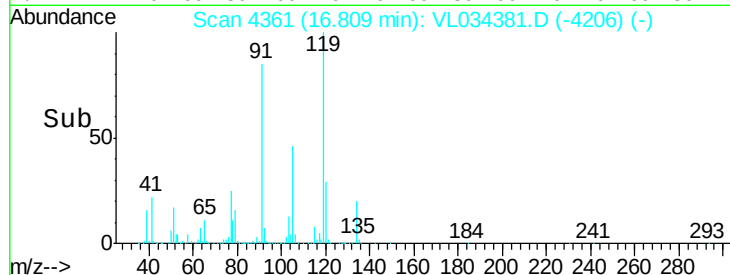
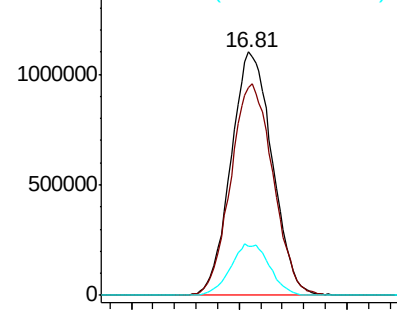
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Abundance Ion 119.20 (118.90 to 119.90): V

1500000 Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 9.734 ppbv

RT: 17.06 min Scan# 4438

Delta R.T. -0.00 min

Lab File: VL034381.D

Acq: 19 Nov 2019 15:26

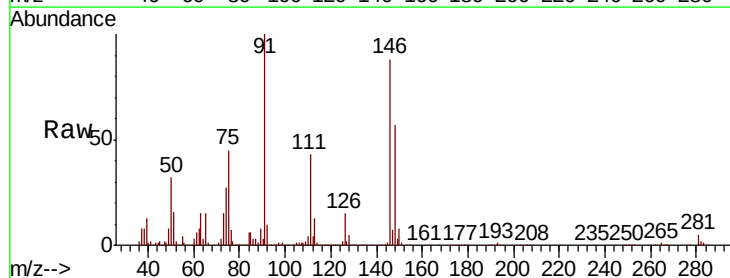
Tgt Ion: 91 Resp: 1355086

Ion Ratio Lower Upper

91 100

126 16.1 12.9 19.3

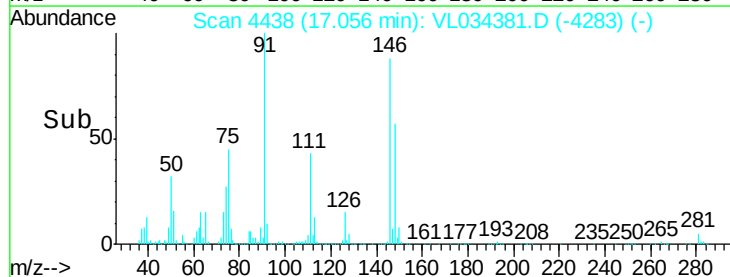
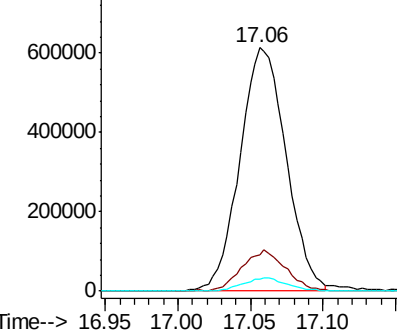
128 5.2 4.3 6.5

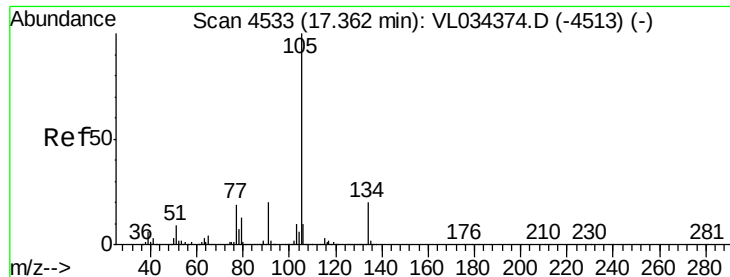


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.100 ppbv

RT: 17.36 min Scan# 4532

Delta R.T. -0.00 min

Lab File: VL034381.D

Acq: 19 Nov 2019 15:26

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111919

Tot Ion: 105 Resp: 4099807

Ion Ratio Lower Upper

105 100

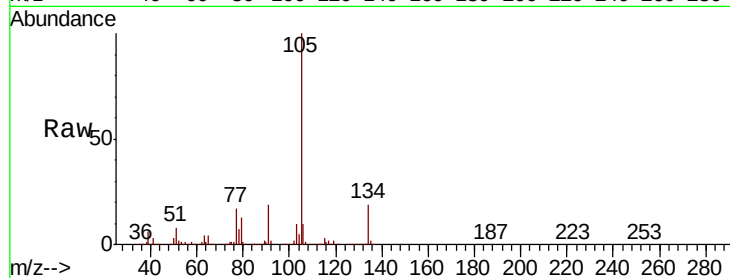
134 18.6 15.0 22.6

Manual Integrations

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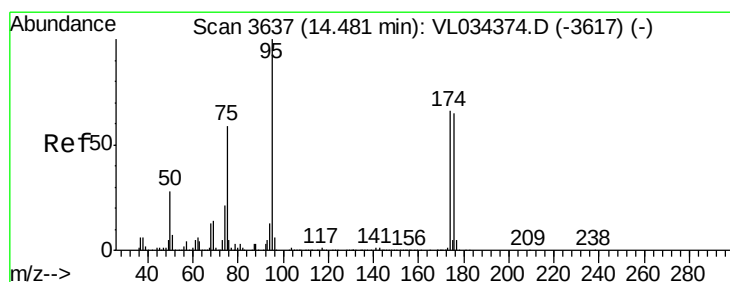
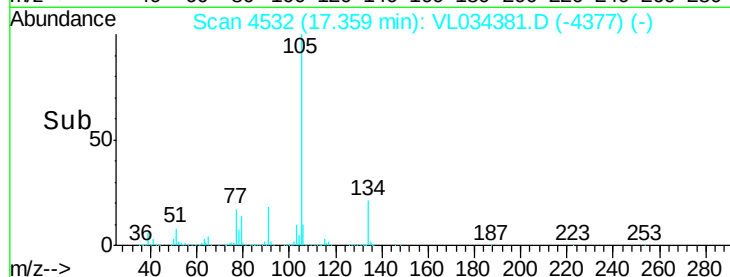
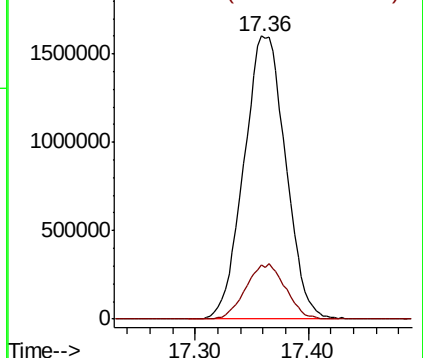
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.463 ppbv

RT: 14.47 min Scan# 3635

Delta R.T. -0.01 min

Lab File: VL034381.D

Acq: 19 Nov 2019 15:26

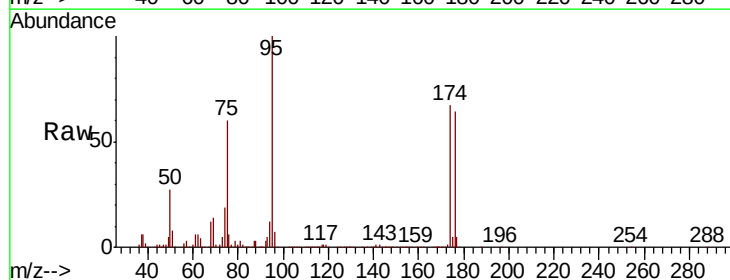
Tgt Ion: 95 Resp: 1828162

Ion Ratio Lower Upper

95 100

174 67.4 52.2 78.2

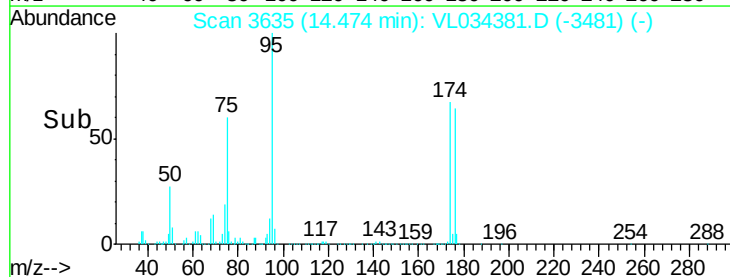
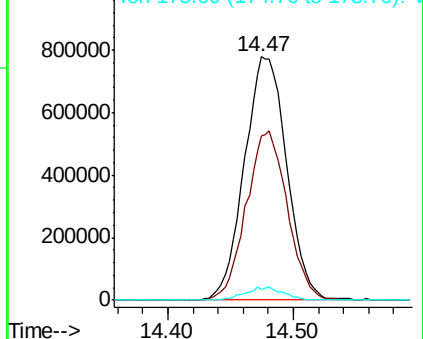
175 4.7 3.8 5.8

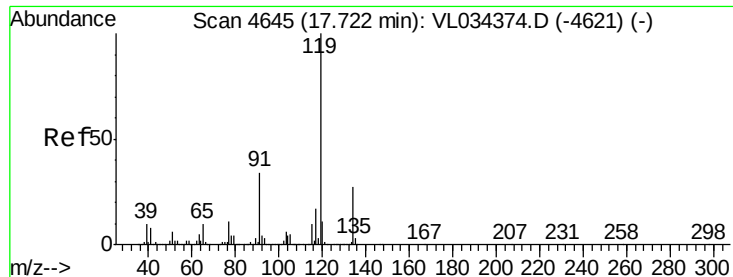


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





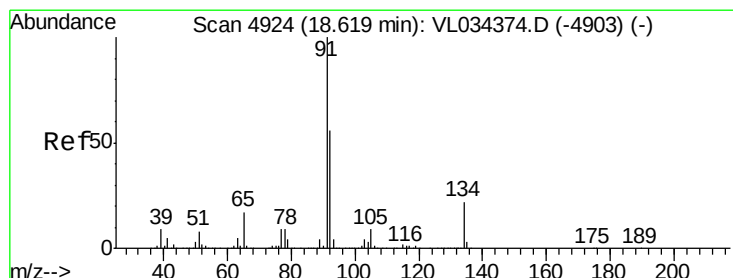
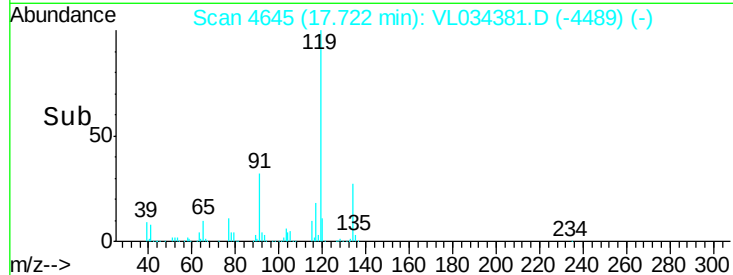
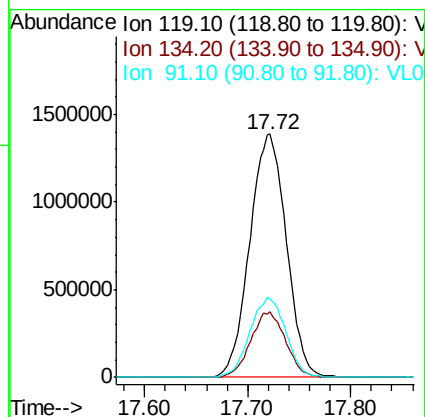
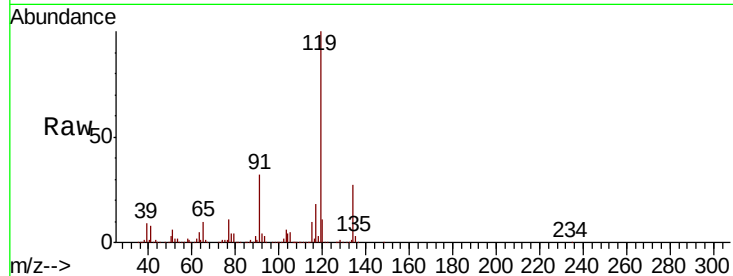
#69
 p-Isopropyltoluene
 Concen: 8.125 ppbv
 RT: 17.72 min Scan# 4645
 Delta R.T. 0.00 min
 Lab File: VL034381.D
 Acq: 19 Nov 2019 15:26

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111919

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.8	20.6	31.0
91	32.3	26.3	39.5

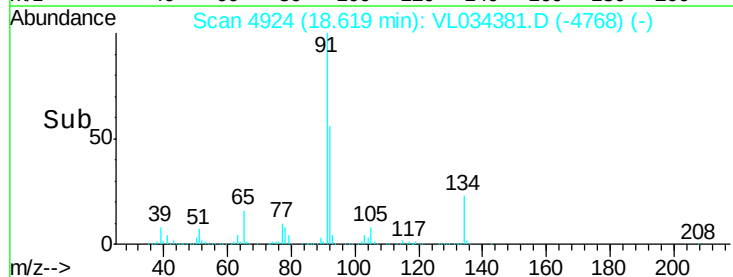
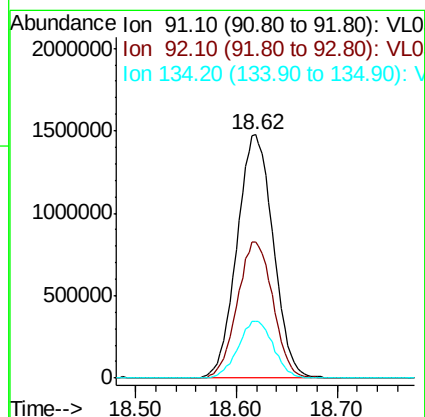
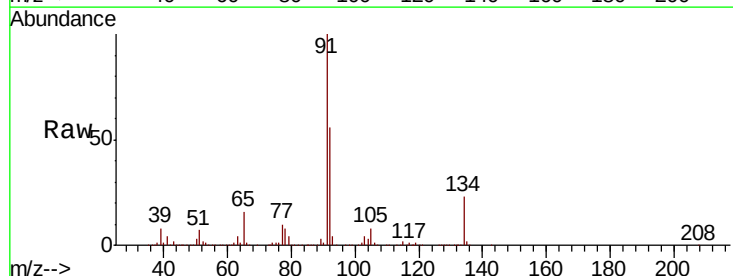
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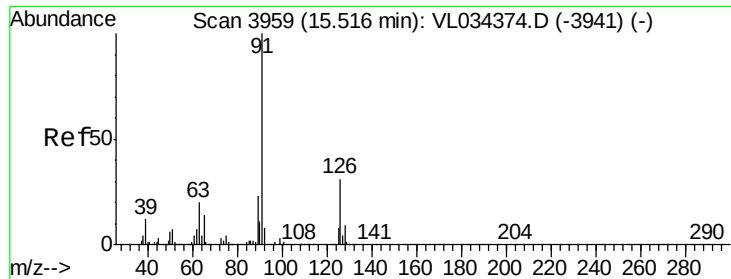
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#70
 n-Butylbenzene
 Concen: 8.121 ppbv
 RT: 18.62 min Scan# 4924
 Delta R.T. 0.00 min
 Lab File: VL034381.D
 Acq: 19 Nov 2019 15:26

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.3	43.8	65.6
134	22.8	17.9	26.9





#71

2-Chlorotoluene

Concen: 8.305 ppbv

RT: 15.52 min Scan# 3960

Delta R.T. 0.00 min

Lab File: VL034381.D

Acq: 19 Nov 2019 15:26

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111919

Tot Ion: 91 Resp: 2667671

Ion Ratio Lower Upper

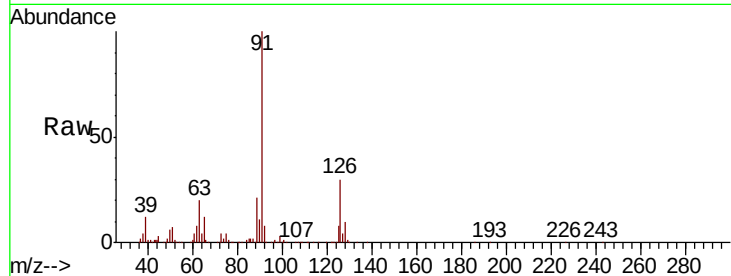
91 100

126 29.4 11.8 47.4

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

2000000

1500000

1000000

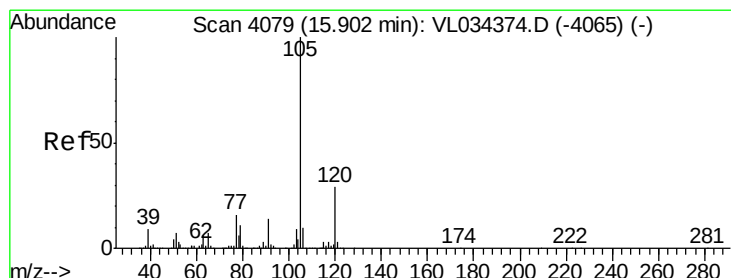
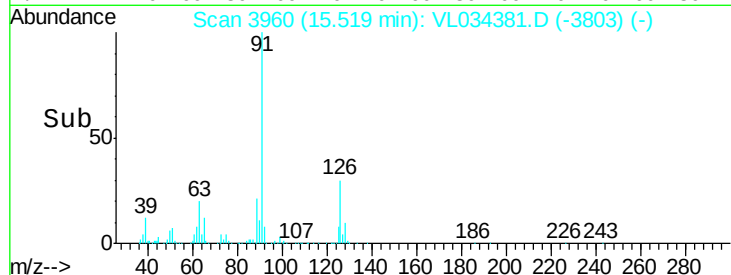
500000

0

15.52

15.60

Time-->



#72

4-Ethyltoluene

Concen: 8.432 ppbv

RT: 15.90 min Scan# 4079

Delta R.T. 0.00 min

Lab File: VL034381.D

Acq: 19 Nov 2019 15:26

Tgt Ion: 105 Resp: 2967543

Ion Ratio Lower Upper

105 100

120 29.0 23.5 35.3

91 13.9 11.4 17.0

77 15.2 12.6 19.0

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

1500000

1000000

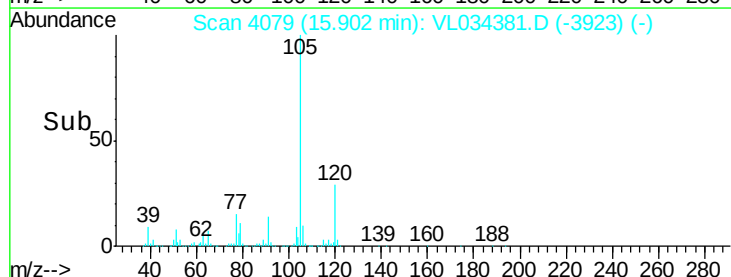
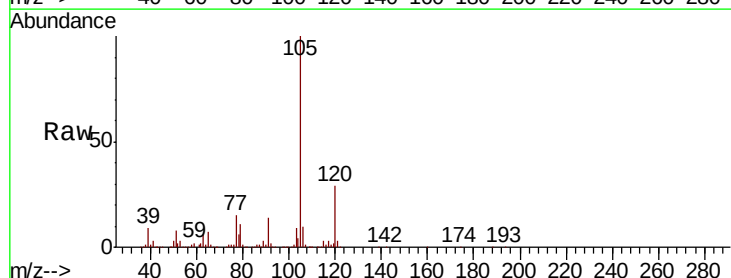
500000

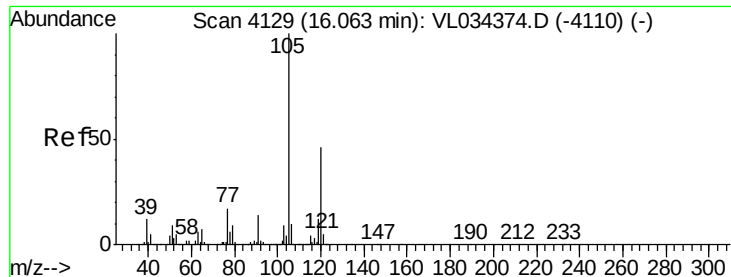
0

15.90

16.00

Time-->





#73

1,3,5-Trimethylbenzene

Concen: 8.198 ppbv

RT: 16.06 min Scan# 4129

Delta R.T. 0.00 min

Lab File: VL034381.D

Acq: 19 Nov 2019 15:26

Instrument :

MSVOA_L

ClientSampleId :

ICVVL111919

Tot Ion:105 Resp: 2824185

Ion Ratio Lower Upper

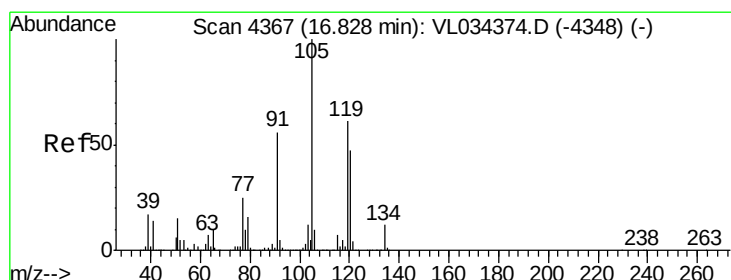
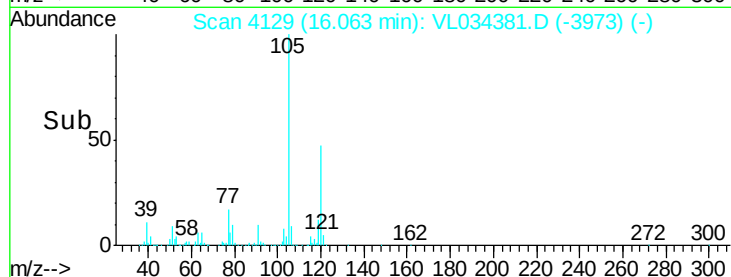
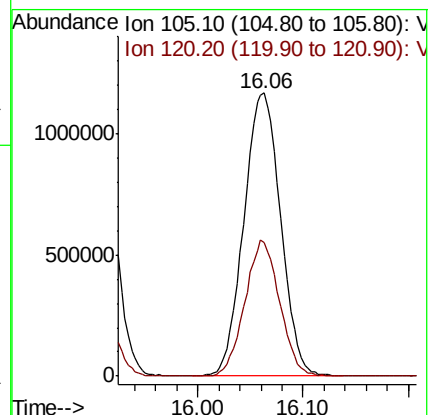
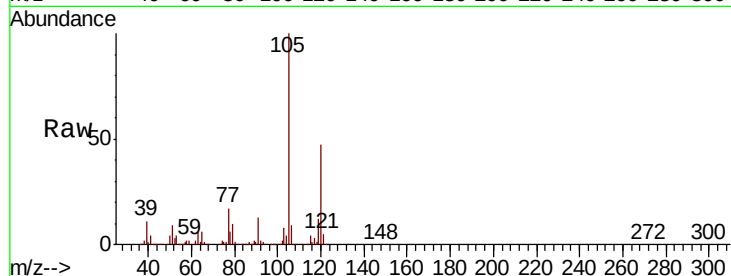
105 100

120 47.2 37.1 55.7

Manual Integrations
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#74

1,2,4-Trimethylbenzene

Concen: 7.878 ppbv

RT: 16.83 min Scan# 4367

Delta R.T. 0.00 min

Lab File: VL034381.D

Acq: 19 Nov 2019 15:26

Tgt Ion:105 Resp: 2882838

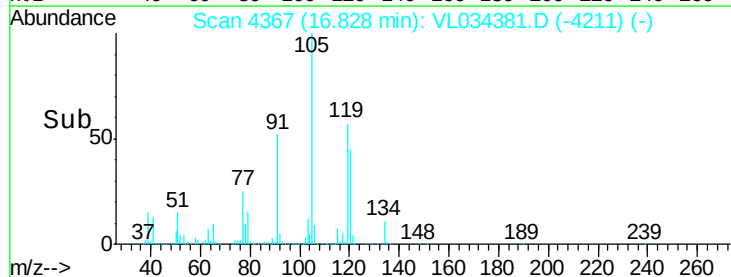
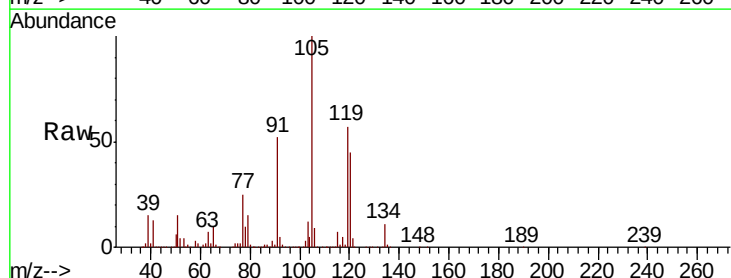
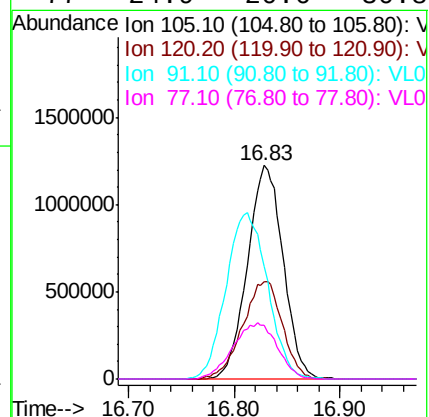
Ion Ratio Lower Upper

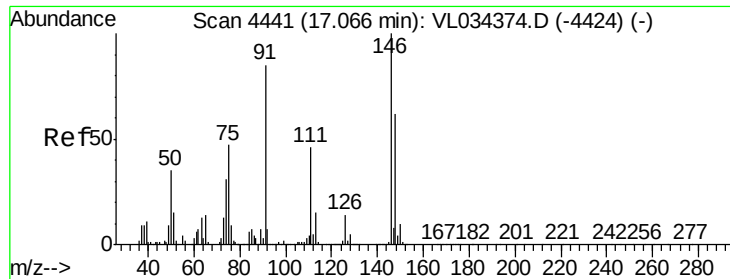
105 100

120 45.3 37.4 56.0

91 52.3 46.3 69.5

77 24.9 20.6 30.8





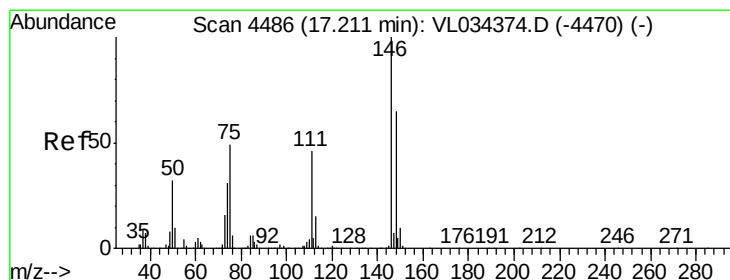
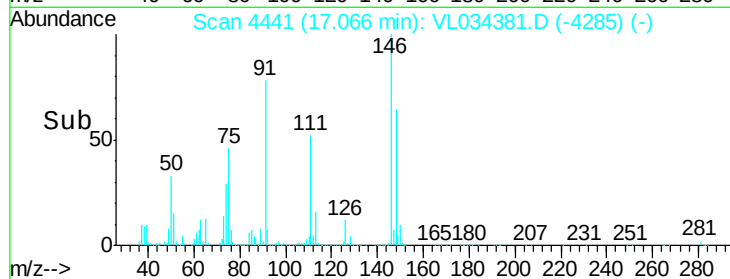
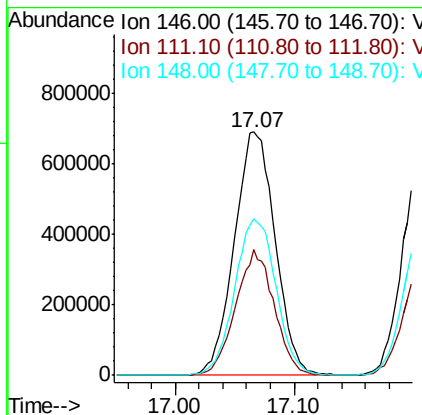
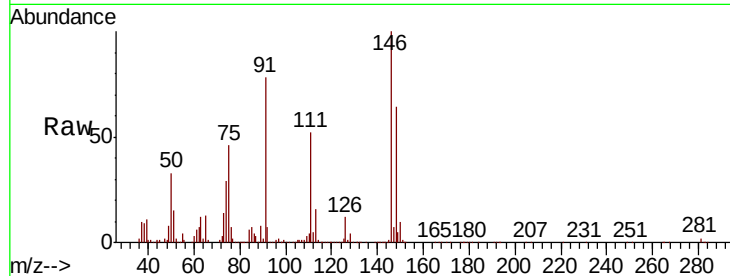
#75
 1,3-Dichlorobenzene
 Concen: 7.762 ppbv
 RT: 17.07 min Scan# 4441
 Delta R.T. 0.00 min
 Lab File: VL034381.D
 Acq: 19 Nov 2019 15:26

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111919

Tot Ion:146 Resp: 1632589
 Ion Ratio Lower Upper
 146 100
 111 49.0 24.4 73.4
 148 65.5 32.4 97.0

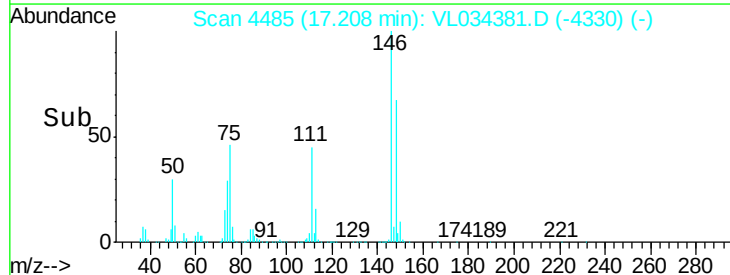
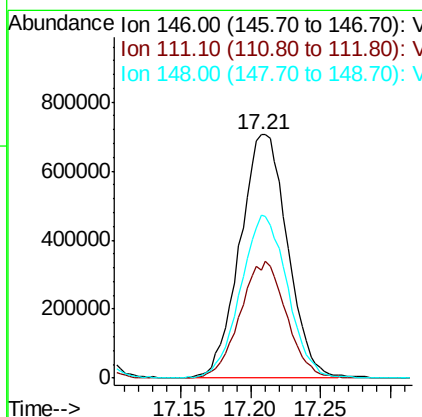
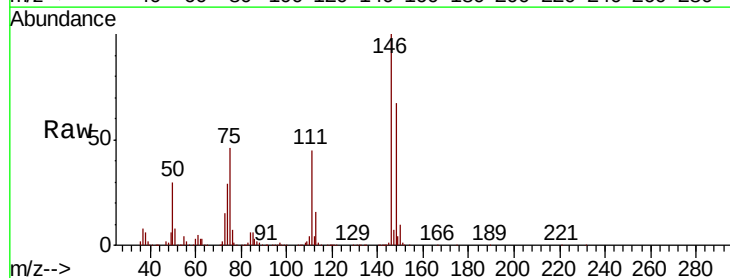
Manual Integrations
 APPROVED

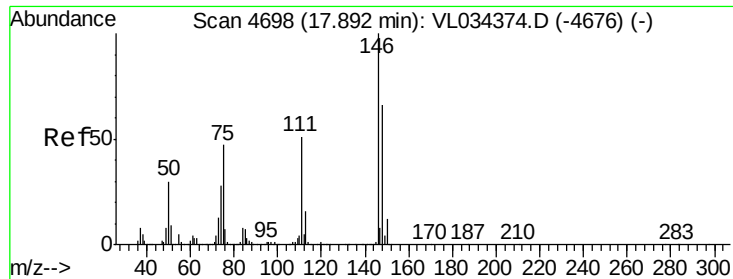
MMDadoda
 11/20/2019 3:53:41 PM



#76
 1,4-Dichlorobenzene
 Concen: 8.095 ppbv
 RT: 17.21 min Scan# 4485
 Delta R.T. -0.00 min
 Lab File: VL034381.D
 Acq: 19 Nov 2019 15:26

Tgt Ion:146 Resp: 1653413
 Ion Ratio Lower Upper
 146 100
 111 47.0 24.1 72.3
 148 66.1 32.9 98.6





#77

1,2-Dichlorobenzene

Concen: 7.959 ppbv

RT: 17.89 min Scan# 4698

Delta R.T. 0.00 min

Lab File: VL034381.D

Acq: 19 Nov 2019 15:26

Instrument :
MSVOA_L

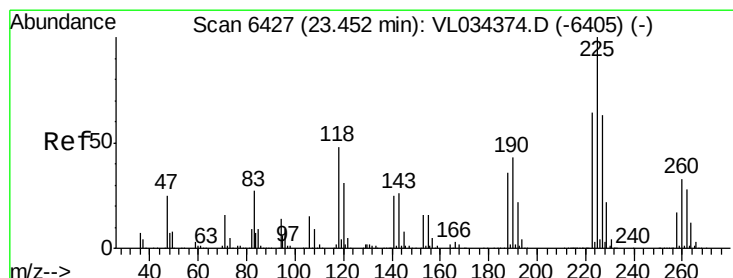
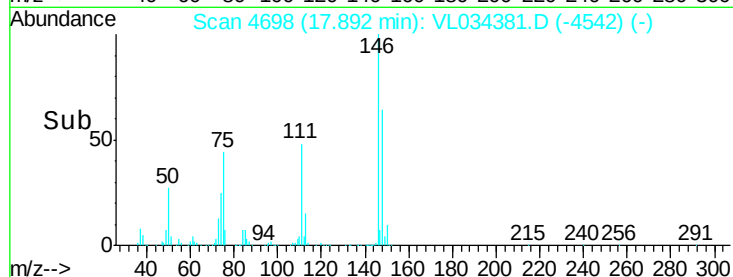
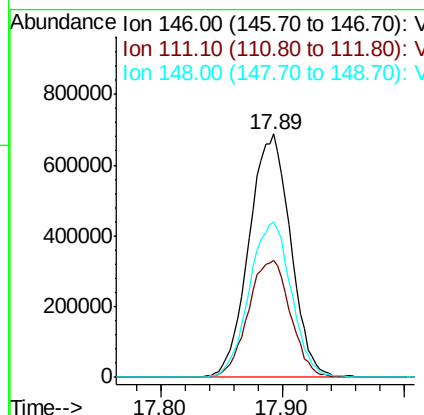
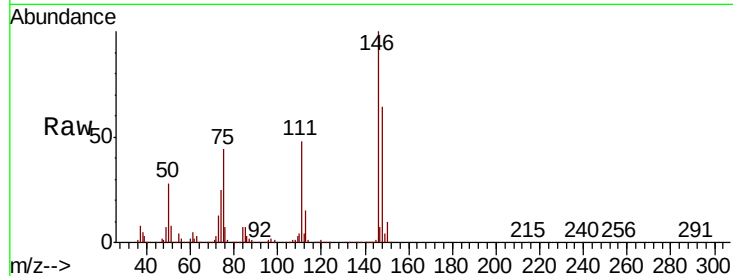
ClientSampleId :
ICVVL111919

Tot Ion:146 Resp: 1616913

Ion	Ratio	Lower	Upper
146	100		
111	49.1	25.0	75.0
148	64.9	32.7	98.1

Manual Integrations
APPROVED

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#78

Hexachloro-1,3-Butadiene

Concen: 8.963 ppbv

RT: 23.45 min Scan# 6427

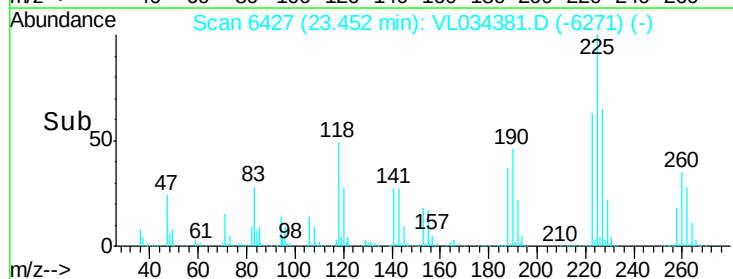
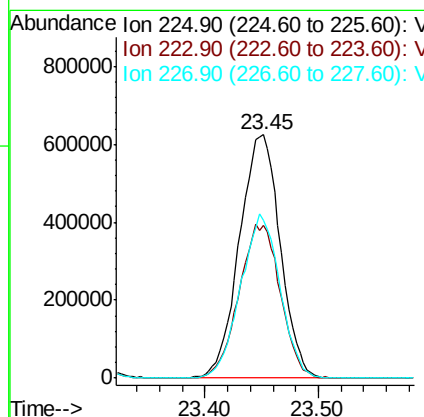
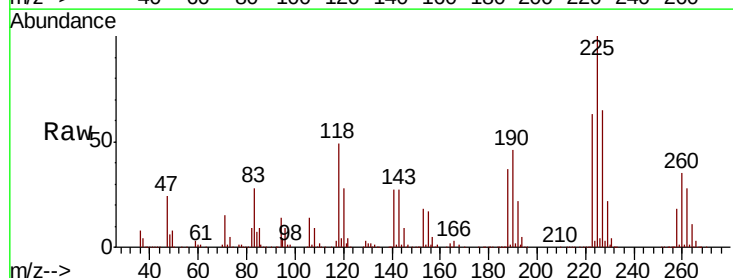
Delta R.T. 0.00 min

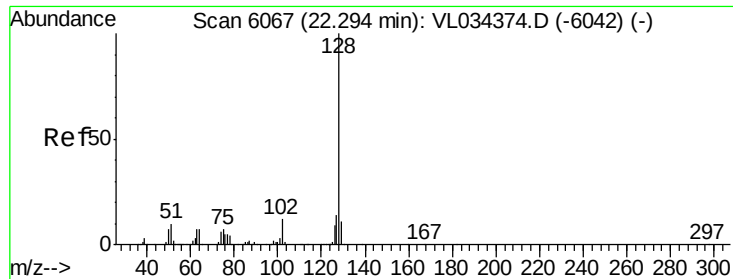
Lab File: VL034381.D

Acq: 19 Nov 2019 15:26

Tgt Ion:225 Resp: 1564492

Ion	Ratio	Lower	Upper
225	100		
223	64.0	50.2	75.2
227	64.9	51.5	77.3





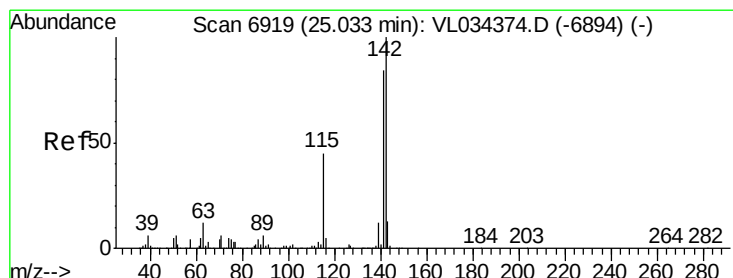
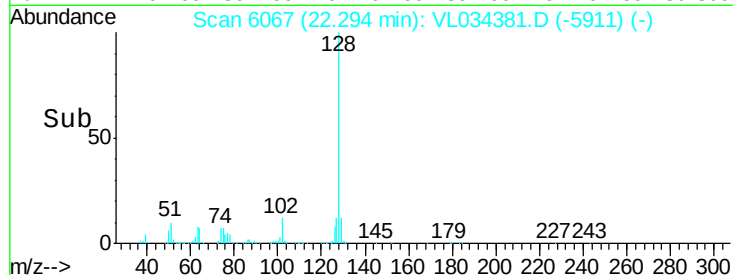
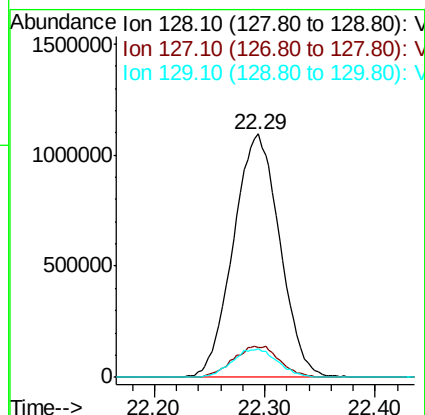
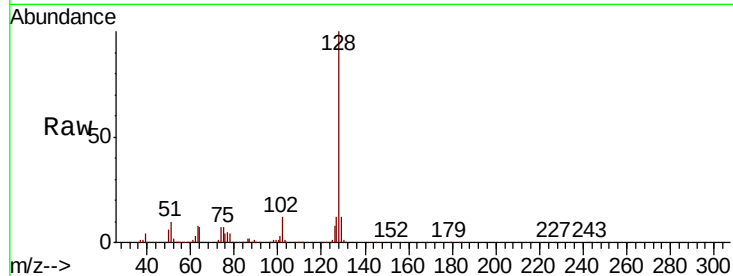
#79
Naphthalene
Concen: 9.974 ppbv
RT: 22.29 min Scan# 6067
Delta R.T. 0.00 min
Lab File: VL034381.D
Acq: 19 Nov 2019 15:26

Instrument :
MSVOA_L
ClientSampleId :
ICVVL111919

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.4	11.0	16.6
129	11.8	8.9	13.3

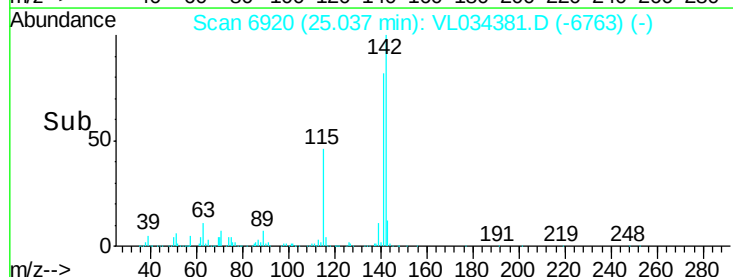
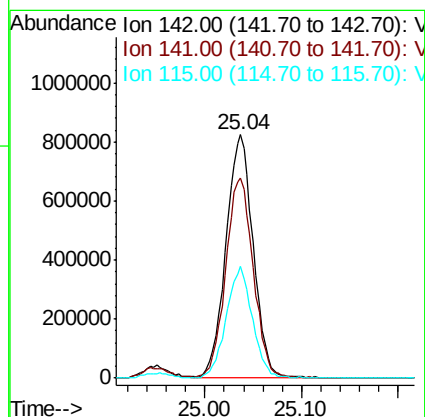
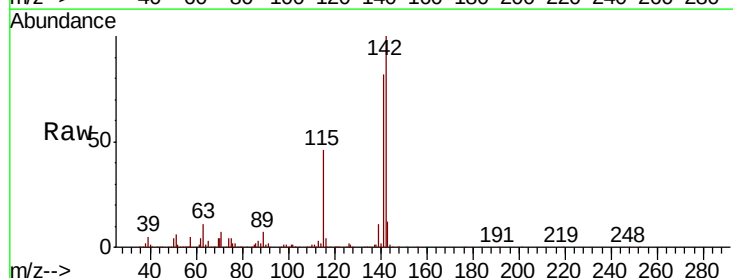
Manual Integrations
APPROVED

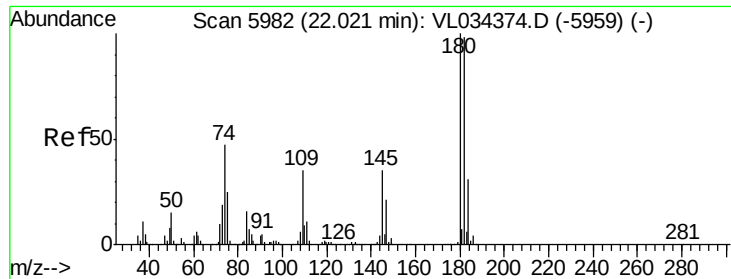
MMDadoda
11/20/2019 3:53:41 PM



#80
Naphthalene, 2-methyl-
Concen: 11.248 ppbv
RT: 25.04 min Scan# 6920
Delta R.T. 0.00 min
Lab File: VL034381.D
Acq: 19 Nov 2019 15:26

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.3	67.1	100.7
115	44.2	36.6	54.8





#81
 1,2,4-Trichlorobenzene
 Concen: 9.422 ppbv
 RT: 22.02 min Scan# 5981
 Delta R.T. -0.00 min
 Lab File: VL034381.D
 Acq: 19 Nov 2019 15:26

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111919

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.6	76.8	115.2
184	32.1	24.9	37.3

Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 3:53:41 PM

