

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121118\
 Data File : VL032955.D
 Acq On : 11 Dec 2018 15:20
 Operator : SY/AP
 Sample : VL1211ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1211ABS01

Manual Integrations
 APPROVED

MMDadoda
 12/13/2018 7:58:37 AM

Quant Time: Dec 12 01:02:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 07
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1290673	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3401834	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3350538m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2668831	10.78	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1767636	10.259	ppbv	98
3) Chlorodifluoromethane	3.02	51	933987	9.555	ppbv	100
4) Chloromethane	3.17	50	530556	9.323	ppbv	96
5) Vinyl Chloride	3.29	62	554285	9.573	ppbv	99
6) Bromomethane	3.52	94	365075	10.081	ppbv	97
7) Chloroethane	3.61	64	211000	10.167	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	1417663	9.901	ppbv	100
9) Propene	3.04	41	370591	9.588	ppbv	99
10) Heptane	8.25	43	1660832	11.439	ppbv	99
11) Trichlorofluoromethane	4.01	101	1572227	9.685	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1424905	10.288	ppbv	98
13) Ethanol	3.65	45	95496	7.176	ppbv	94
14) Bromoethene	3.79	108	467257	10.162	ppbv	100
15) Acetone	3.91	43	976563	8.815	ppbv	99
16) 1,3-Butadiene	3.37	39	452675	10.299	ppbv	96
17) tert-Butyl alcohol	4.36	59	327716	11.619	ppbv #	81
18) 1,1-Dichloroethene	4.36	96	650250	11.988	ppbv	98
19) Isopropyl Alcohol	4.03	45	657340	9.448	ppbv	100
20) Methylene Chloride	4.41	84	553869	10.229	ppbv	97
21) Allyl Chloride	4.48	41	1011918	11.209	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	607721	9.027	ppbv	98
23) Vinyl Acetate	5.16	43	1869132	9.965	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1718346	10.535	ppbv	99
25) Ethyl Acetate	5.77	43	2557402	9.772	ppbv	100
26) Hexane	5.79	57	1188310	9.835	ppbv	99
27) Carbon Disulfide	4.62	76	1631027	10.797	ppbv	100
28) Methyl tert-Butyl Ether	5.12	73	1895392	10.445	ppbv	99
29) Chloroform	5.86	83	2129380	9.877	ppbv	97
30) Cyclohexane	7.25	84	1081641	10.801	ppbv	99
31) cis-1,2-Dichloroethene	5.65	61	1261508	11.378	ppbv	99
32) 1,1,1-Trichloroethane	6.63	97	2253625	9.880	ppbv	99
34) 2-Butanone	5.34	43	1195856	8.070	ppbv	99
35) Carbon Tetrachloride	7.14	117	2437620	9.116	ppbv	98
36) Benzene	7.01	78	2544668	10.170	ppbv	100
37) 1,2-Dichloroethane	6.42	62	1607493	9.436	ppbv	99
38) Trichloroethene	7.97	130	1092962	10.496	ppbv	98
39) 1,2-Dichloropropane	7.74	63	976312	10.289	ppbv	96
40) 1,4-Dioxane	7.97	88	365929	10.469	ppbv #	94
41) Tetrahydrofuran	6.15	42	919329	9.976	ppbv	99
42) Bromodichloromethane	7.93	83	2398969	10.164	ppbv	98
43) Methyl Methacrylate	8.15	69	1043077	11.250	ppbv	98

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 Misc : 400ml/MSVOA L
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 ClientSampleId :
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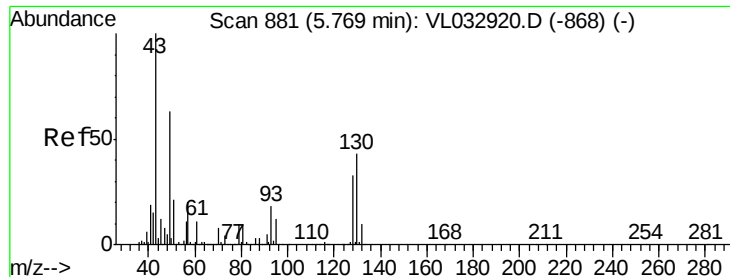
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Quant Time: Dec 12 01:02:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 0
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	4471615	10.528	ppbv	100
45) t-1,3-Dichloropropene	9.43	75	1414115	12.440	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1610481	11.575	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	1096768	10.501	ppbv	99
48) Dibromochloromethane	10.46	129	2089699	10.665	ppbv	100
49) Bromoform	13.21	173	1780329	11.047	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	2501659	10.558	ppbv	100
51) 2-Hexanone	10.28	43	1928186	11.999	ppbv	99
52) Tetrachloroethene	11.38	164	1008381	11.079	ppbv	98
53) Toluene	9.96	91	3290786	12.401	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1712626	10.496	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.29	131	1460184	9.775	ppbv	99
57) Chlorobenzene	12.31	112	2330760	9.632	ppbv	98
58) Ethyl Benzene	12.88	91	4186645	11.713	ppbv	99
59) m/p-Xylene	13.13	91	7138624m	22.029	ppbv	
60) o-Xylene	13.86	91	3724166	11.380	ppbv	100
61) Styrene	13.70	104	2575082	11.829	ppbv	99
62) Isopropylbenzene	14.84	105	5336233	11.688	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.85	83	2562721	10.085	ppbv	100
64) n-propylbenzene	15.73	120	1249894	10.540	ppbv	100
65) tert-Butylbenzene	16.92	119	4616436	10.906	ppbv	99
66) Benzyl Chloride	17.17	91	2728170	11.629	ppbv	100
67) sec-Butylbenzene	17.47	105	6220359	9.968	ppbv	100
69) p-Isopropyltoluene	17.83	119	5191460	10.265	ppbv	100
70) n-Butylbenzene	18.73	91	5319850	11.433	ppbv	99
71) 2-Chlorotoluene	15.63	91	3638997	10.718	ppbv	99
72) 4-Ethyltoluene	16.01	105	4023361	11.012	ppbv	100
73) 1,3,5-Trimethylbenzene	16.17	105	3884241	10.890	ppbv	99
74) 1,2,4-Trimethylbenzene	16.94	105	4206076	10.444	ppbv	98
75) 1,3-Dichlorobenzene	17.18	146	2369429	9.991	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	2233660	10.093	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	2209091	9.974	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	978802	8.036	ppbv	99
79) Naphthalene	22.42	128	3093938	11.898	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	803211	14.457	ppbv	100
81) 1,2,4-Trichlorobenzene	22.15	180	1538185	11.154	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

Instrument :

MSVOA_L

ClientSampleId :

VL1211ABS01

Tot Ion: 49 Resp: 1290673

Ion Ratio Lower Upper

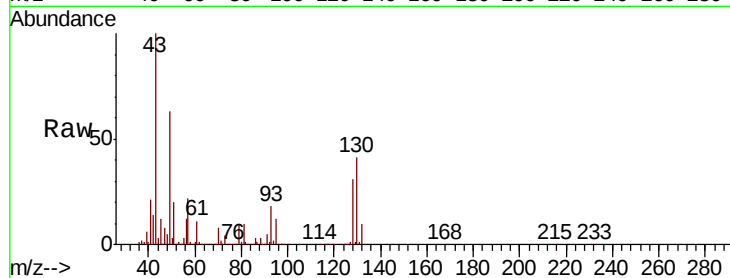
49 100

128 51.3 26.3 78.8

130 66.0 33.9 101.7

Manual Integrations
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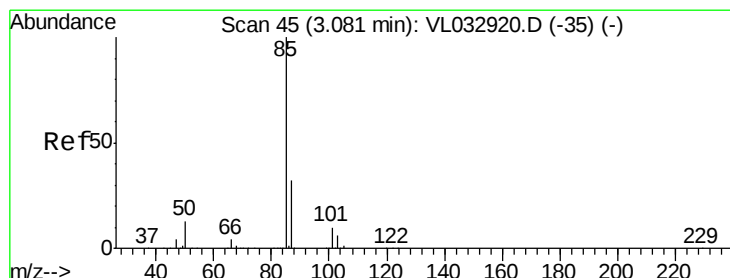
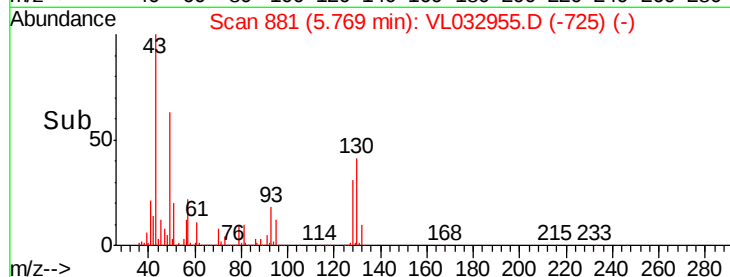
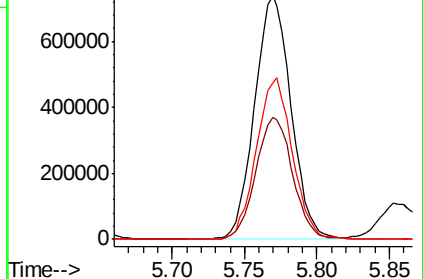
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 10.259 ppbv

RT: 3.08 min Scan# 45

Delta R.T. 0.00 min

Lab File: VL032955.D

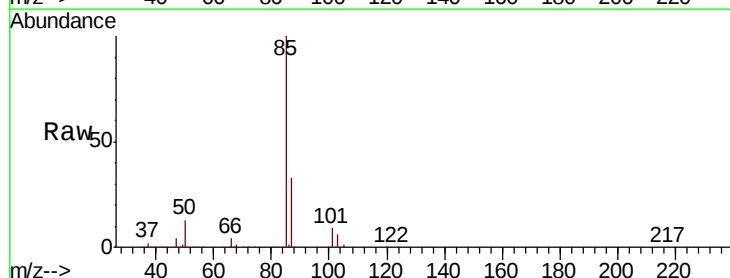
Acq: 11 Dec 2018 15:20

Tgt Ion: 85 Resp: 1767636

Ion Ratio Lower Upper

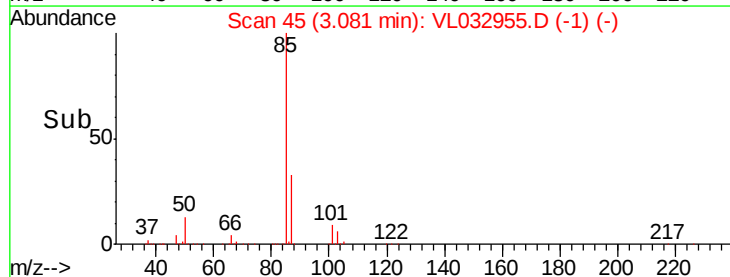
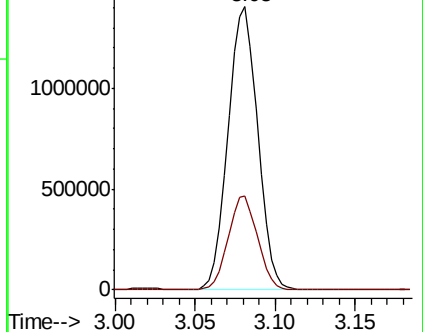
85 100

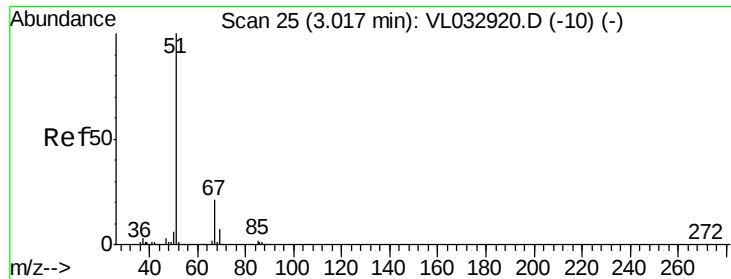
87 33.0 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.555 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

Instrument :

MSVOA_L

ClientSampleId :

VL1211ABS01

Tot Ion: 51 Resp: 933987

Ion Ratio Lower Upper

51 100

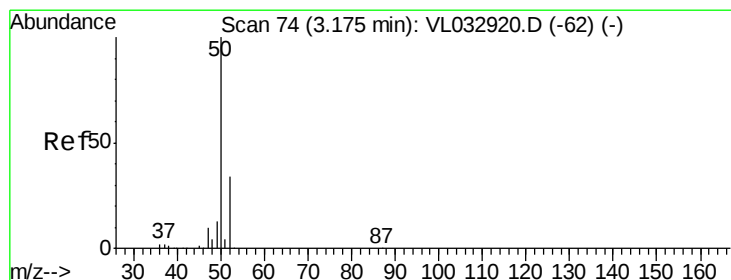
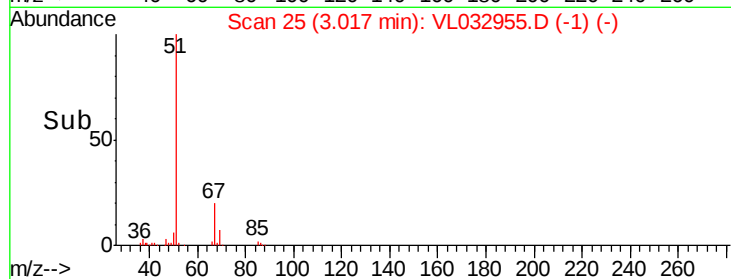
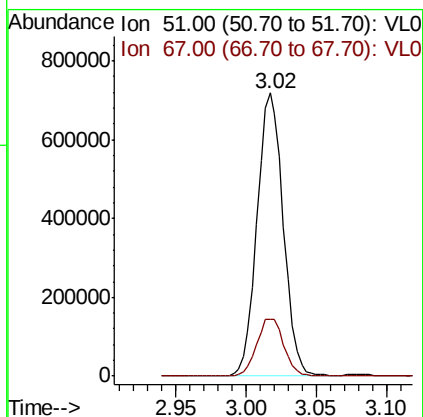
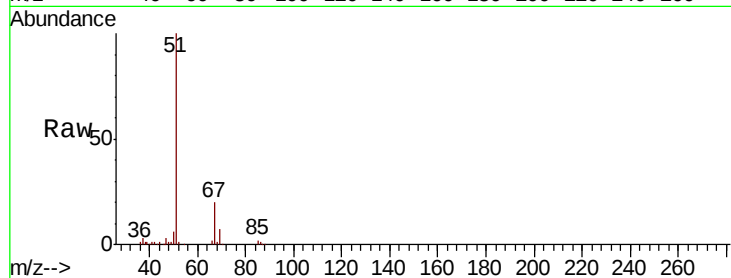
67 21.2 16.8 25.2

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#4

Chloromethane

Concen: 9.323 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL032955.D

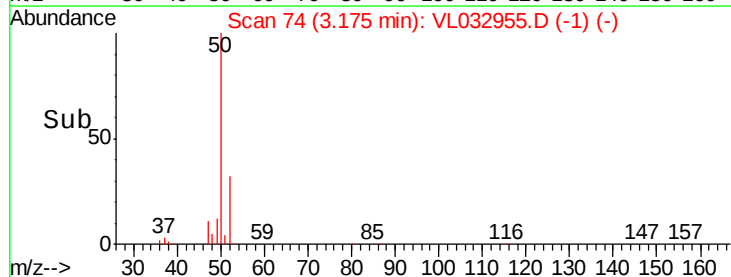
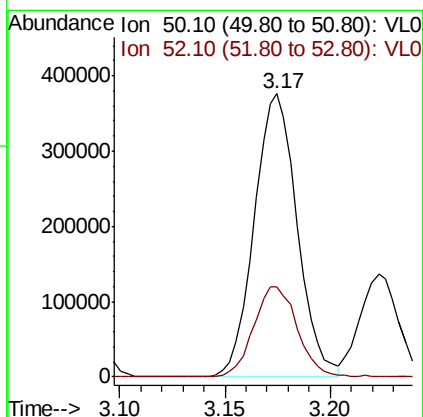
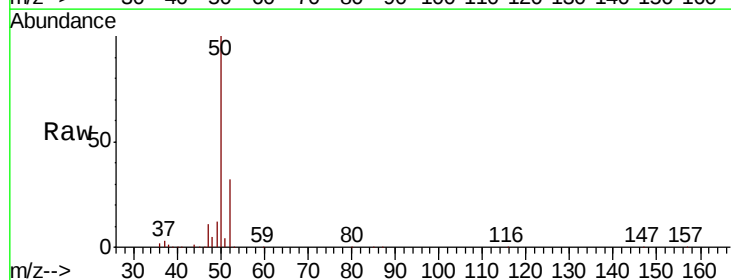
Acq: 11 Dec 2018 15:20

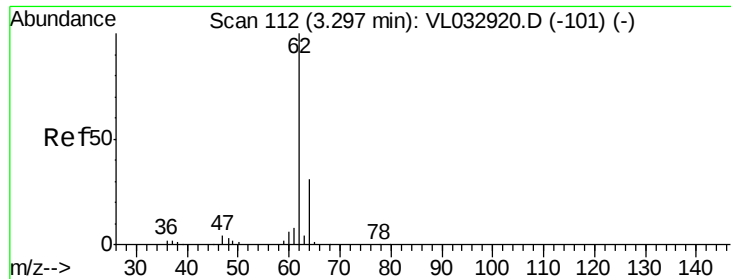
Tgt Ion: 50 Resp: 530556

Ion Ratio Lower Upper

50 100

52 31.9 27.3 40.9





#5

Vinyl Chloride

Concen: 9.573 ppbv

RT: 3.29 min Scan# 111

Delta R.T. -0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

Instrument :

MSVOA_L

ClientSampleId :

VL1211ABS01

Tot Ion: 62 Resp: 554285

Ion Ratio Lower Upper

62 100

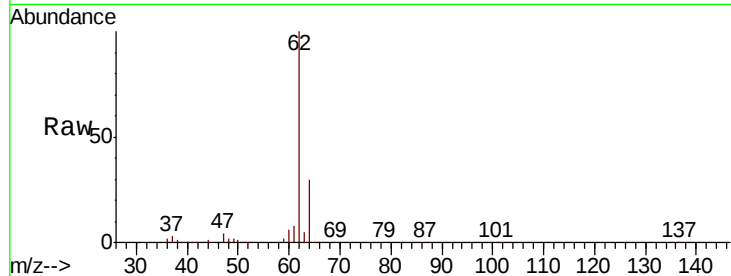
64 30.5 24.8 37.2

Manual Integrations

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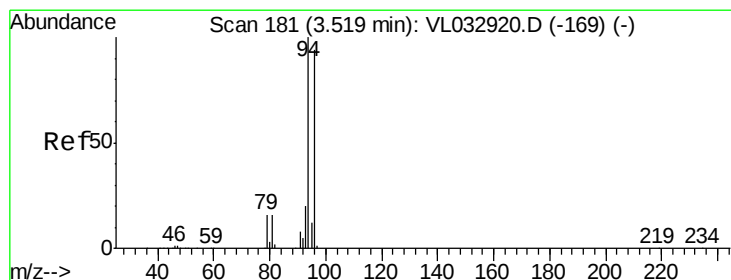
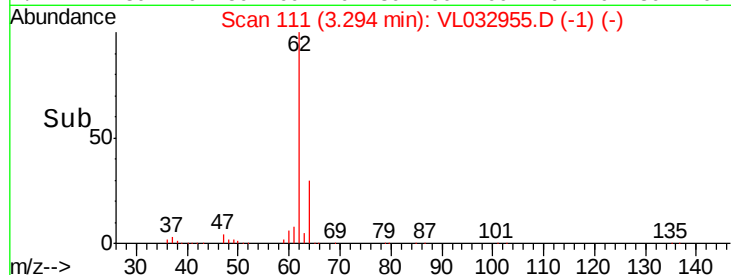
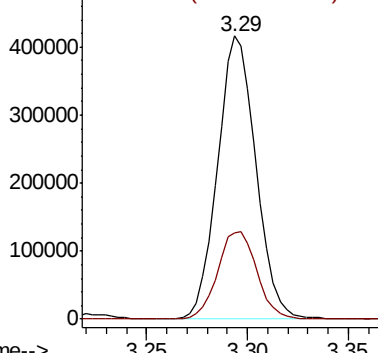
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.081 ppbv

RT: 3.52 min Scan# 181

Delta R.T. 0.00 min

Lab File: VL032955.D

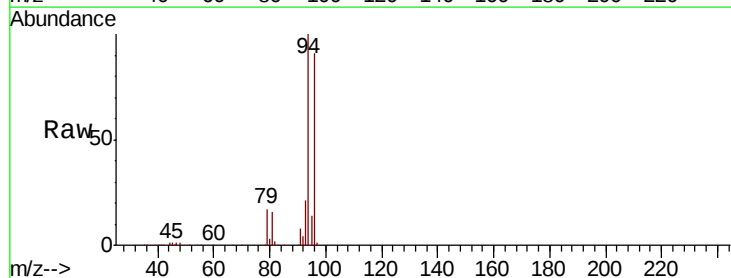
Acq: 11 Dec 2018 15:20

Tgt Ion: 94 Resp: 365075

Ion Ratio Lower Upper

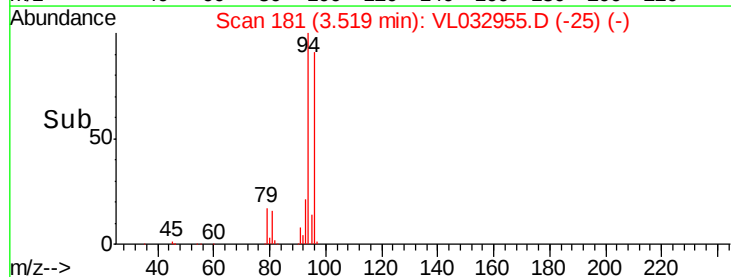
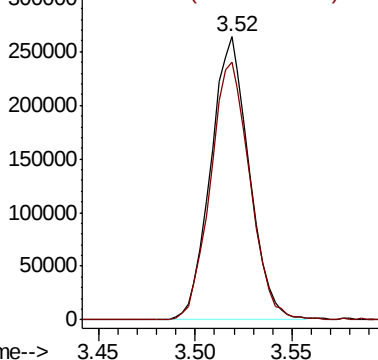
94 100

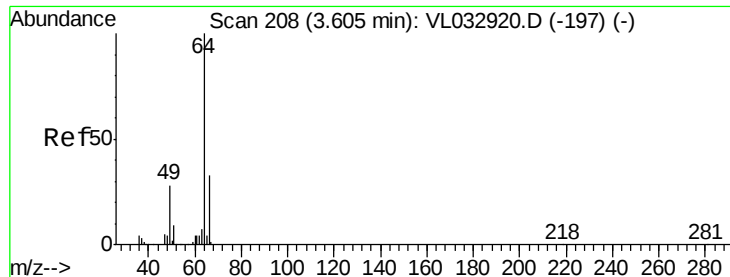
96 91.1 75.5 113.3



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.167 ppbv

RT: 3.61 min Scan# 208

Delta R.T. 0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

Instrument :

MSVOA_L

ClientSampleId :

VL1211ABS01

Tot Ion: 64 Resp: 211000

Ion Ratio Lower Upper

64 100

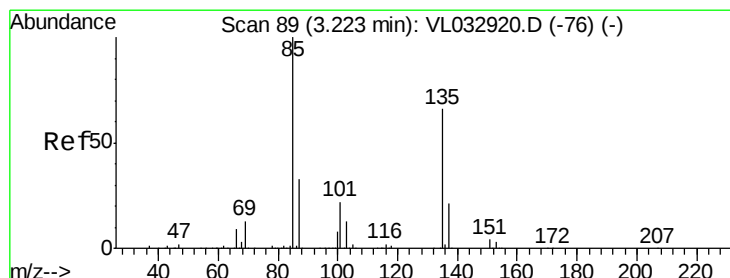
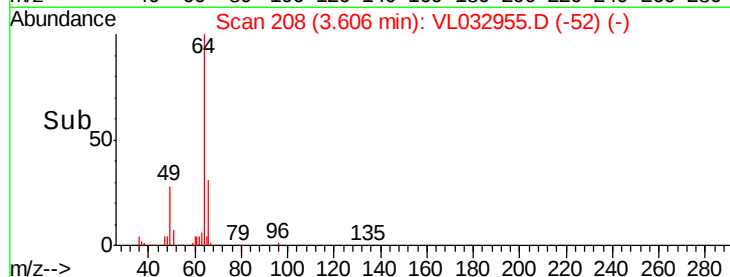
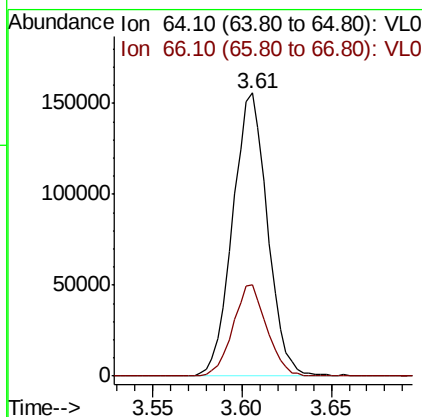
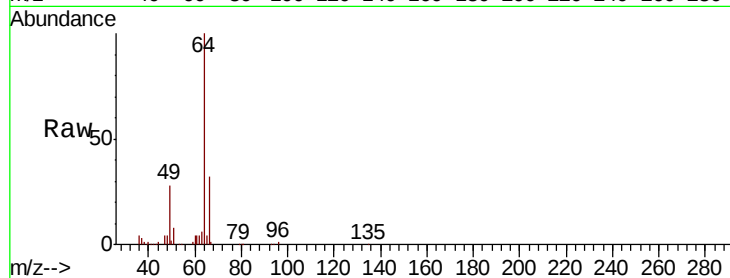
66 32.1 26.6 40.0

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#8

Dichlorotetrafluoroethane

Concen: 9.901 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL032955.D

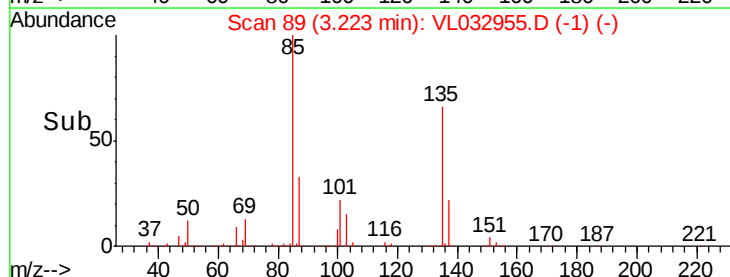
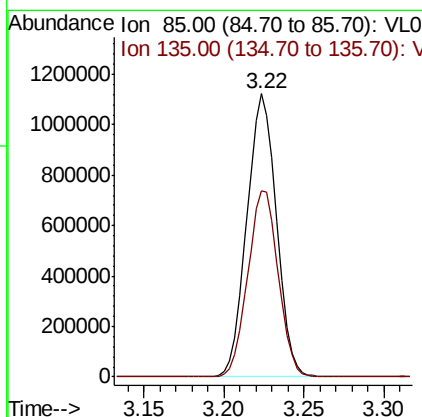
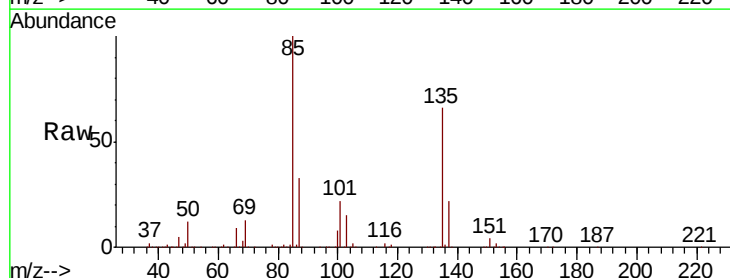
Acq: 11 Dec 2018 15:20

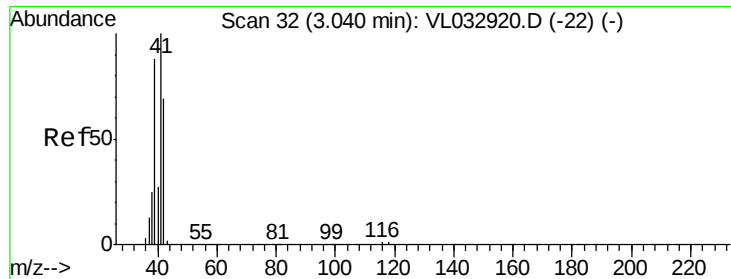
Tgt Ion: 85 Resp: 1417663

Ion Ratio Lower Upper

85 100

135 67.8 54.5 81.7





#9

Propene

Concen: 9.588 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

Instrument :

MSVOA_L

ClientSampleId :

VL1211ABS01

Tot Ion: 41 Resp: 370591

Ion Ratio Lower Upper

41 100

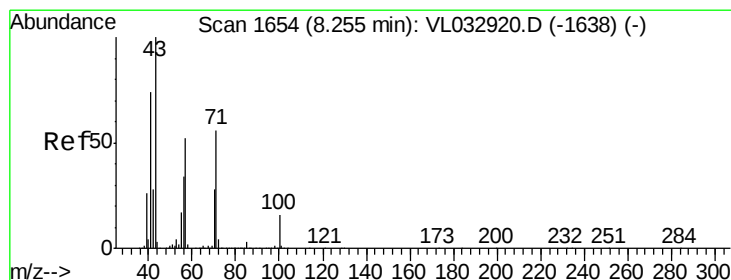
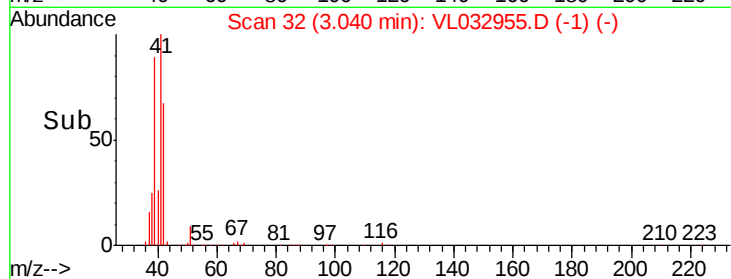
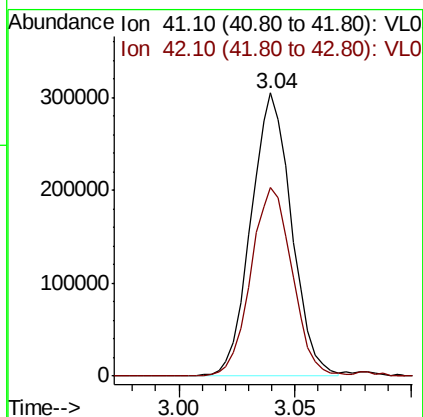
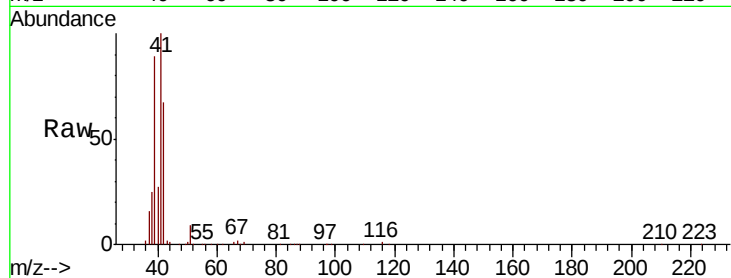
42 69.1 56.2 84.2

Manual Integrations

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#10

Heptane

Concen: 11.439 ppbv

RT: 8.25 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VL032955.D

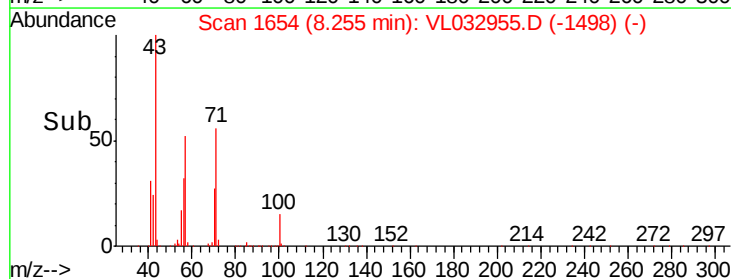
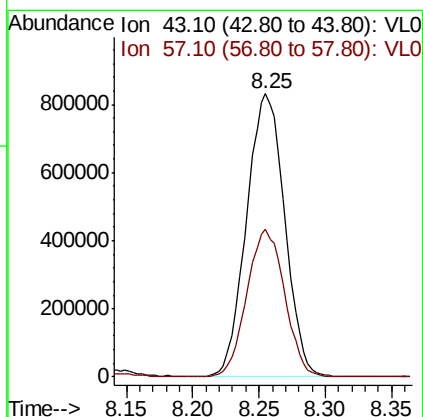
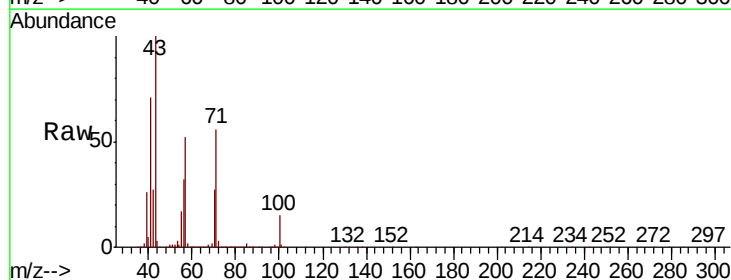
Acq: 11 Dec 2018 15:20

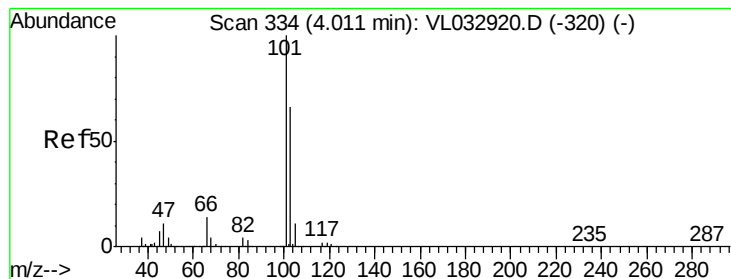
Tgt Ion: 43 Resp: 1660832

Ion Ratio Lower Upper

43 100

57 51.7 41.8 62.6





#11

Trichlorofluoromethane

Concen: 9.685 ppbv

RT: 4.01 min Scan# 333

Delta R.T. -0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

Instrument :

MSVOA_L

ClientSampleId :

VL1211ABS01

Tot Ion:101 Resp: 1572227

Ion Ratio Lower Upper

101 100

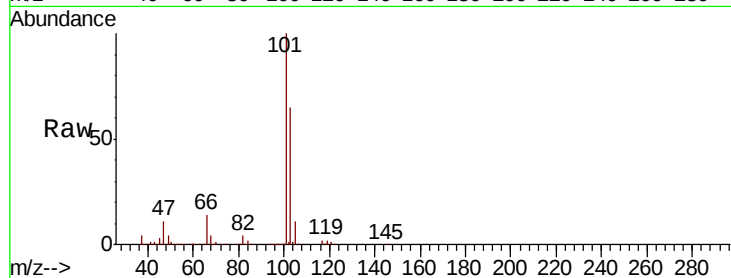
103 65.0 52.7 79.1

Manual Integrations

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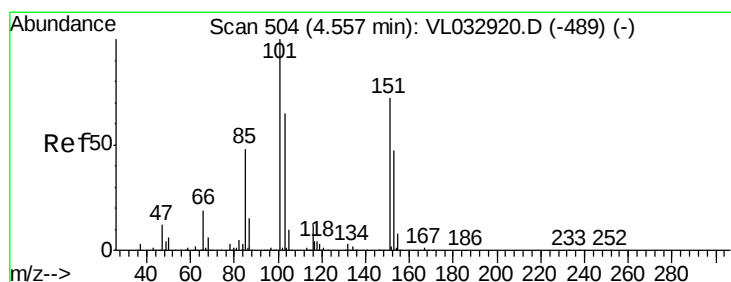
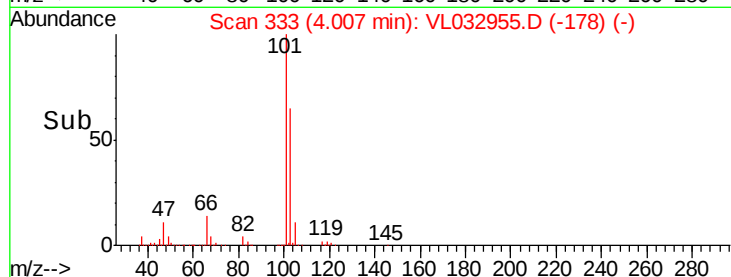
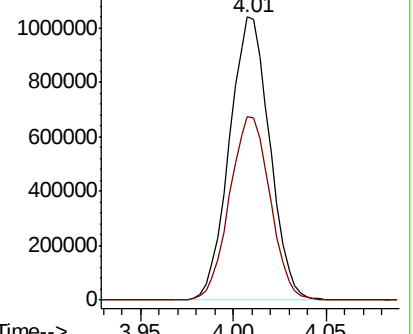
MMDadoda

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 10.288 ppbv

RT: 4.56 min Scan# 504

Delta R.T. 0.00 min

Lab File: VL032955.D

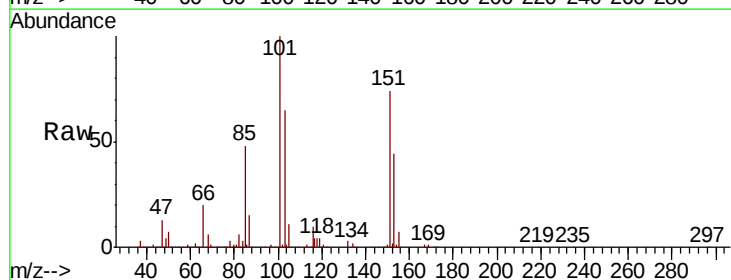
Acq: 11 Dec 2018 15:20

Tgt Ion:101 Resp: 1424905

Ion Ratio Lower Upper

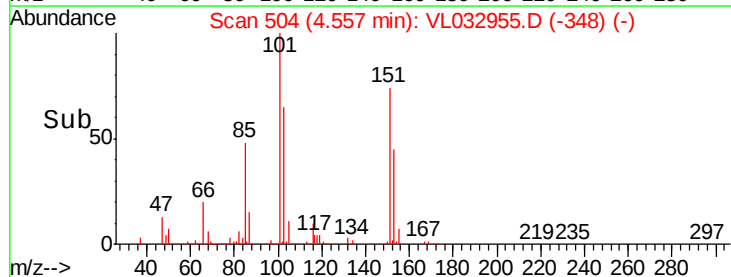
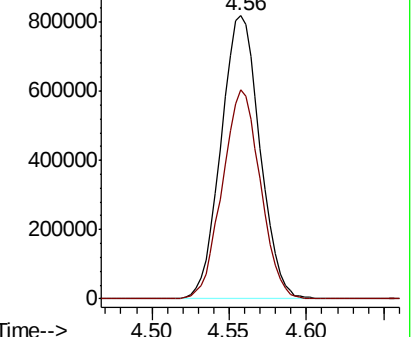
101 100

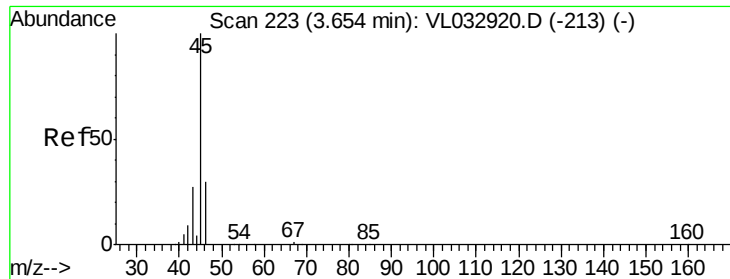
151 72.4 59.3 88.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 7.176 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

Instrument :

MSVOA_L

ClientSampleId :

VL1211ABS01

Tot Ion: 45 Resp: 95496

Ion Ratio Lower Upper

45 100

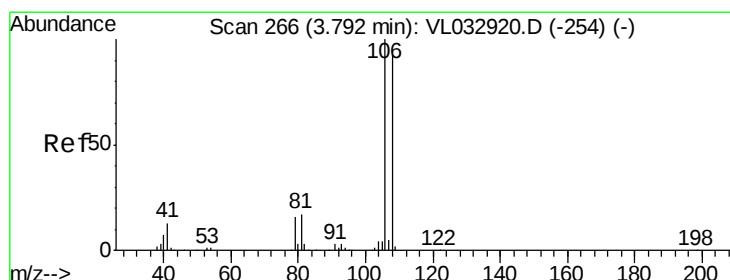
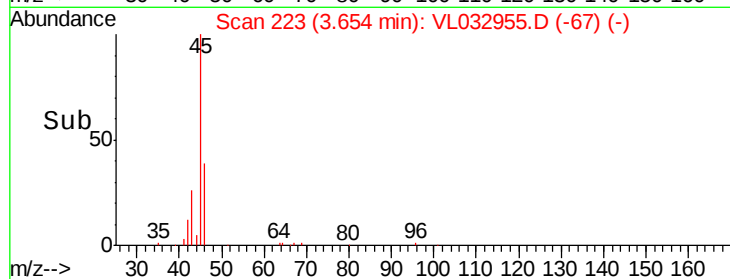
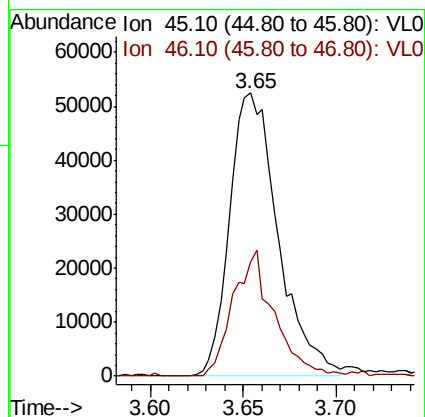
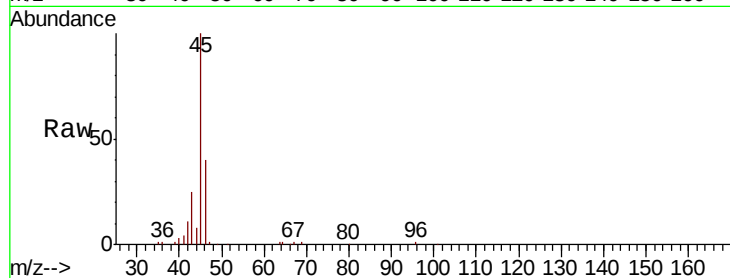
46 38.3 13.8 55.4

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#14

Bromoethene

Concen: 10.162 ppbv

RT: 3.79 min Scan# 266

Delta R.T. 0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

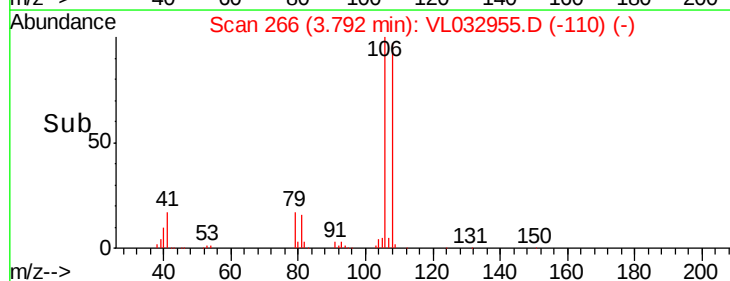
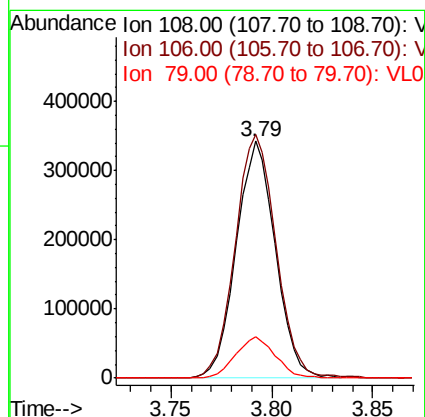
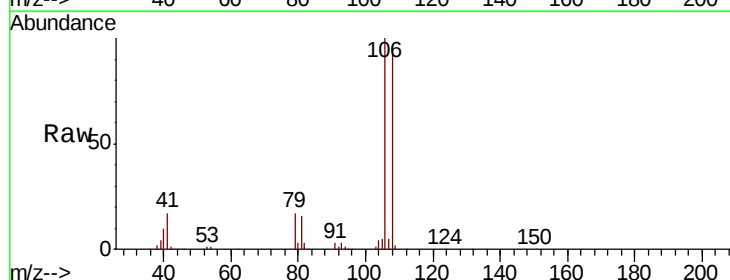
Tgt Ion: 108 Resp: 467257

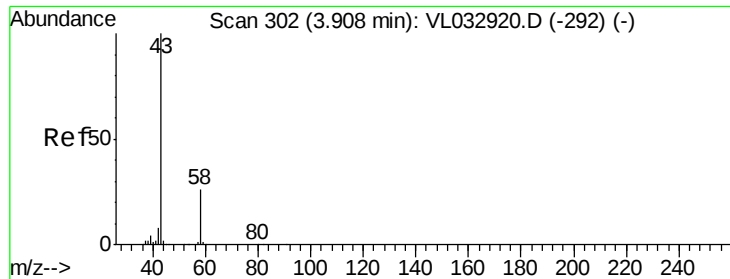
Ion Ratio Lower Upper

108 100

106 107.3 85.4 128.2

79 17.9 14.6 21.8





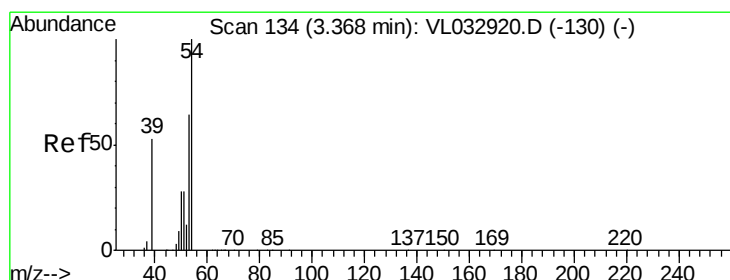
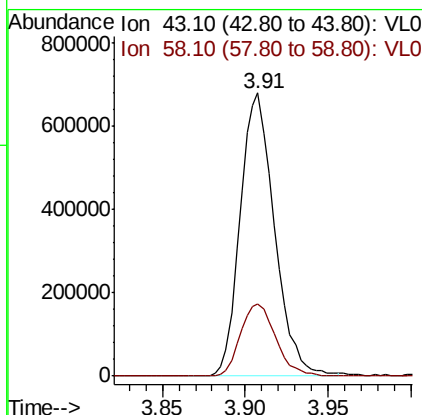
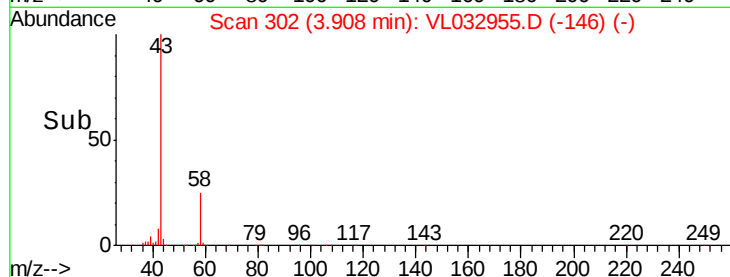
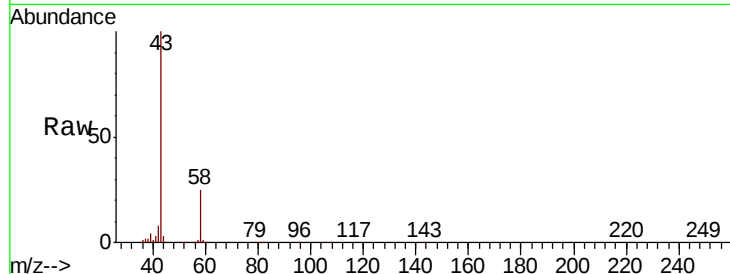
#15
Acetone
Concen: 8.815 ppbv
RT: 3.91 min Scan# 302
Delta R.T. 0.00 min
Lab File: VL032955.D
Acq: 11 Dec 2018 15:20

Instrument :
MSVOA_L
ClientSampleId :
VL1211ABS01

Tot Ion: 43 Resp: 976563
Ion Ratio Lower Upper
43 100
58 26.4 20.6 30.8

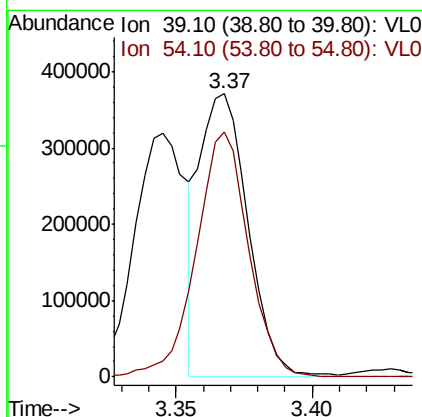
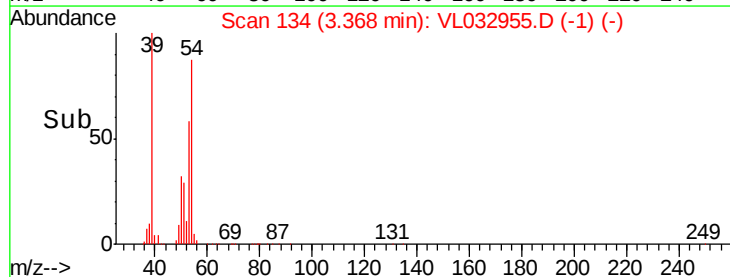
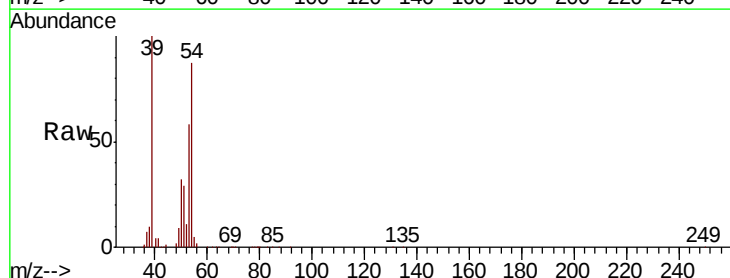
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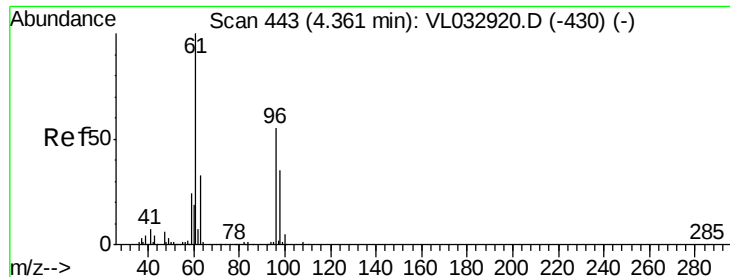
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#16
1,3-Butadiene
Concen: 10.299 ppbv
RT: 3.37 min Scan# 134
Delta R.T. 0.00 min
Lab File: VL032955.D
Acq: 11 Dec 2018 15:20

Tgt Ion: 39 Resp: 452675
Ion Ratio Lower Upper
39 100
54 95.0 72.7 109.1





#17

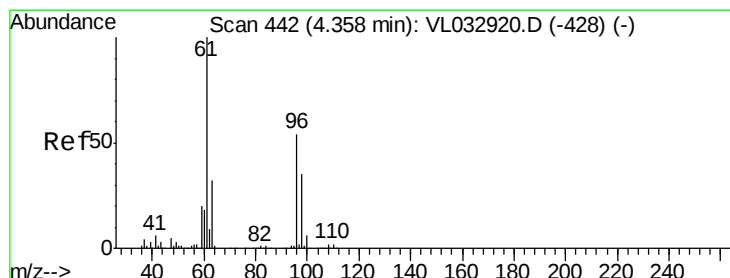
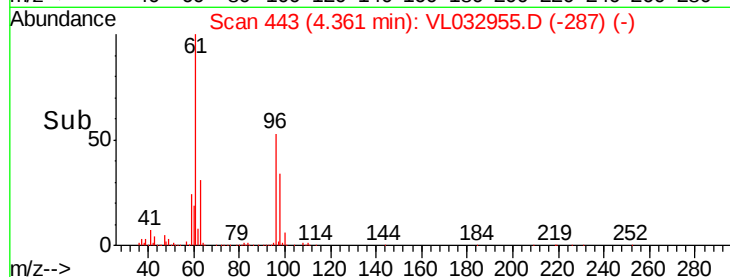
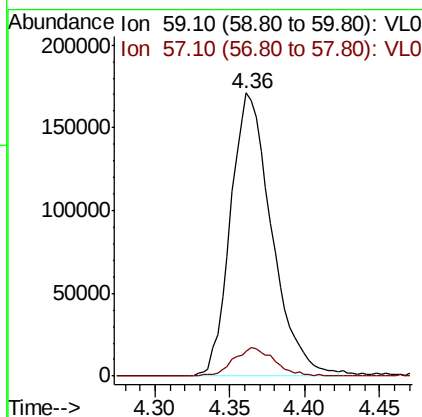
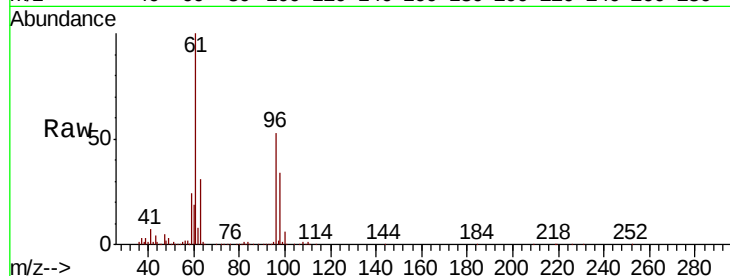
tert-Butyl alcohol
Concen: 11.619 ppbv
RT: 4.36 min Scan# 443
Delta R.T. 0.00 min
Lab File: VL032955.D
Acq: 11 Dec 2018 15:20

Instrument :
MSVOA_L
ClientSampleId :
VL1211ABS01

Tot Ion: 59 Resp: 327716
Ion Ratio Lower Upper
59 100
57 10.0 0.6 1.0#

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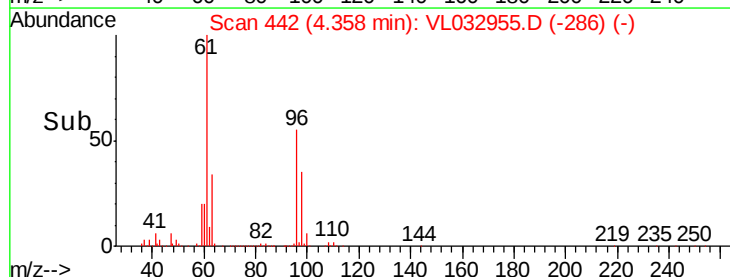
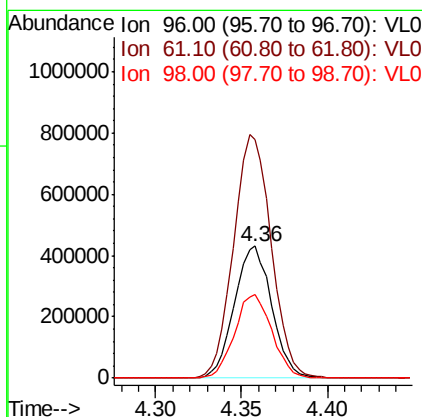
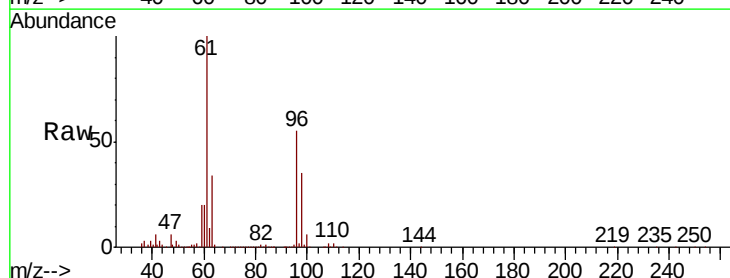
MMDadoda
12/13/2018 7:58:37 AM

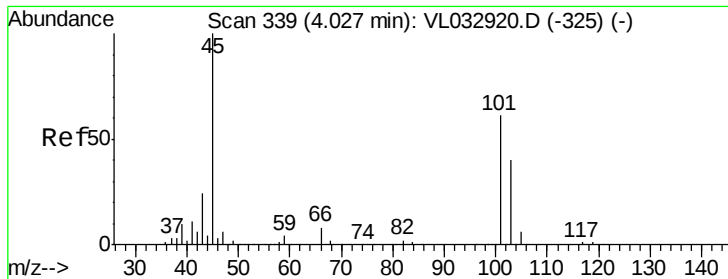


#18

1,1-Dichloroethene
Concen: 11.988 ppbv
RT: 4.36 min Scan# 442
Delta R.T. 0.00 min
Lab File: VL032955.D
Acq: 11 Dec 2018 15:20

Tgt Ion: 96 Resp: 650250
Ion Ratio Lower Upper
96 100
61 180.1 147.0 220.4
98 63.7 50.7 76.1





#19

Isopropyl Alcohol

Concen: 9.448 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

Instrument :

MSVOA_L

ClientSampleId :

VL1211ABS01

Tot Ion: 45 Resp: 657340

Ion Ratio Lower Upper

45 100

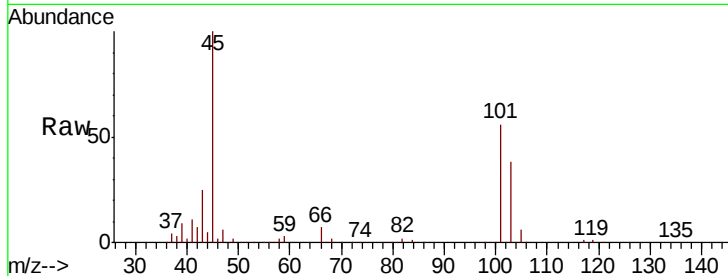
58 1.9 1.4 2.2

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.03

400000

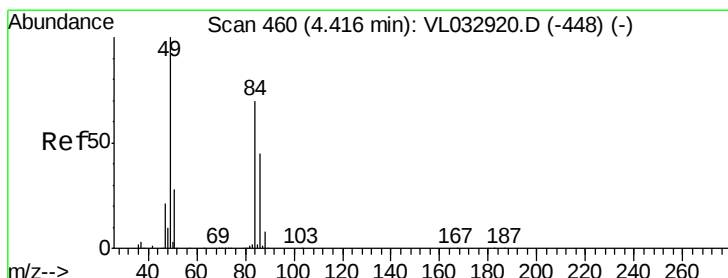
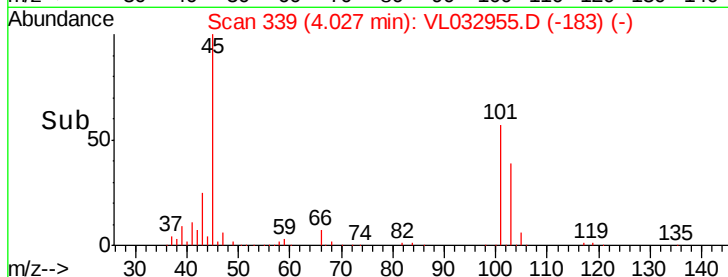
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 10.229 ppbv

RT: 4.41 min Scan# 459

Delta R.T. -0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

Tgt Ion: 84 Resp: 553869

Ion Ratio Lower Upper

84 100

49 143.1 113.8 170.8

51 46.0 31.8 47.8

86 66.7 50.8 76.2

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

800000

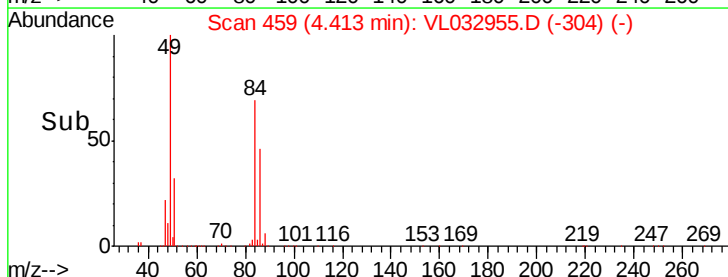
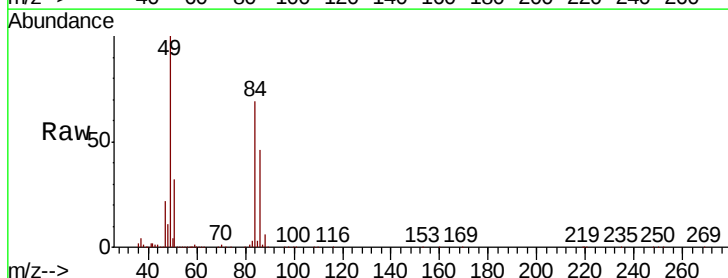
600000

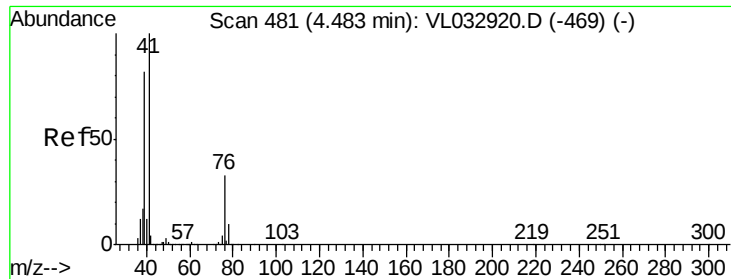
400000

200000

0

Time-->





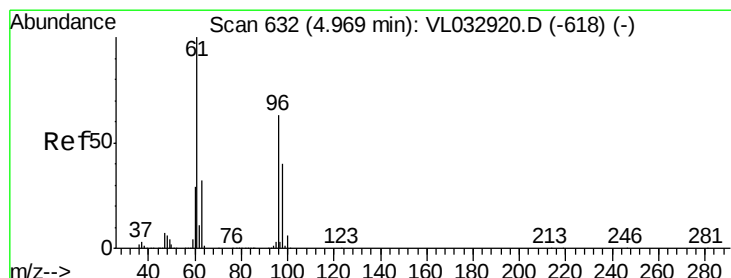
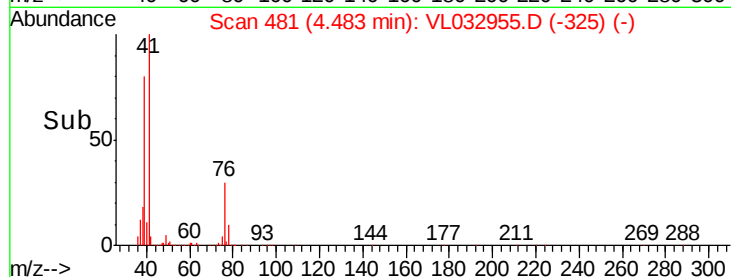
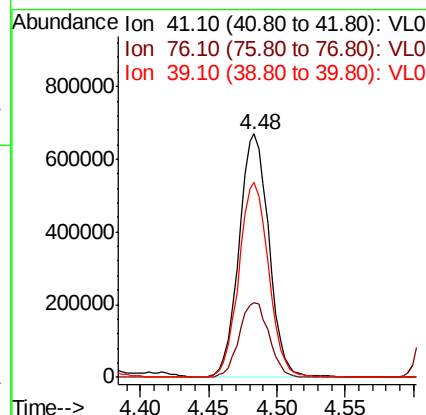
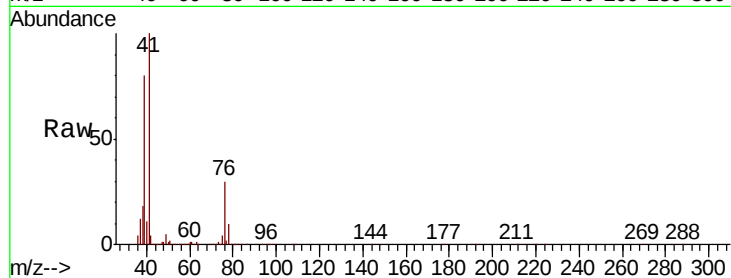
#21
Allvl Chloride
Concen: 11.209 ppbv
RT: 4.48 min Scan# 481
Delta R.T. 0.00 min
Lab File: VL032955.D
Acq: 11 Dec 2018 15:20

Instrument :
MSVOA_L
ClientSampleId :
VL1211ABS01

Tot Ion: 41 Resp: 1011918
Ion Ratio Lower Upper
41 100
76 31.1 25.2 37.8
39 80.5 65.2 97.8

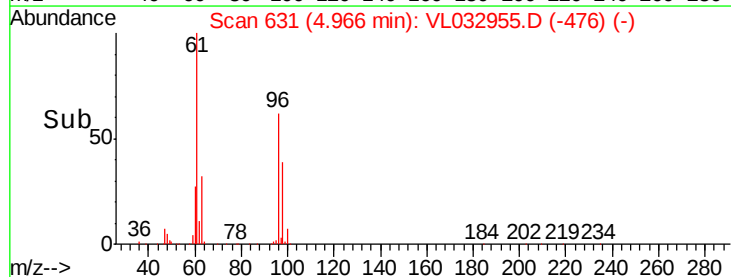
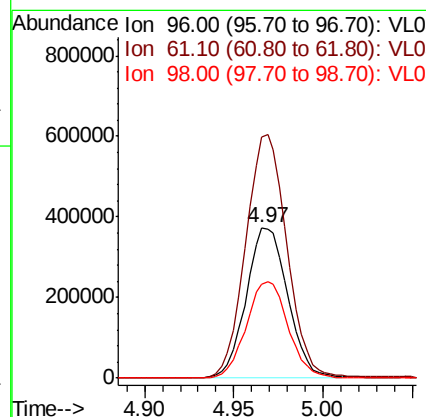
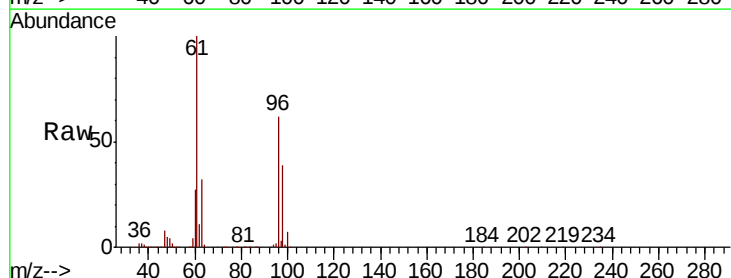
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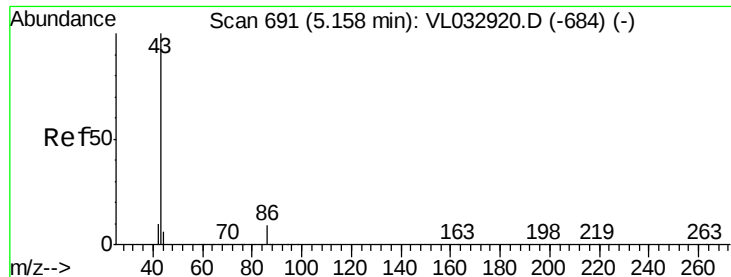
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#22
trans-1,2-Dichloroethene
Concen: 9.027 ppbv
RT: 4.97 min Scan# 631
Delta R.T. -0.00 min
Lab File: VL032955.D
Acq: 11 Dec 2018 15:20

Tgt Ion: 96 Resp: 607721
Ion Ratio Lower Upper
96 100
61 160.7 127.1 190.7
98 62.2 51.3 76.9





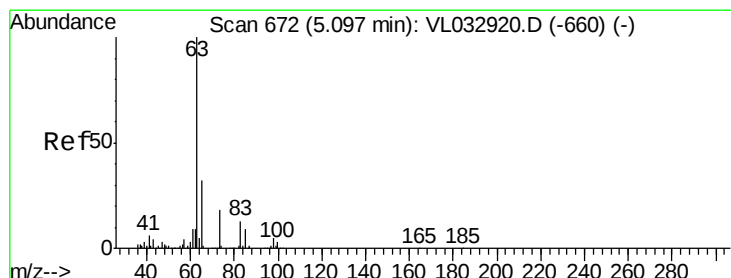
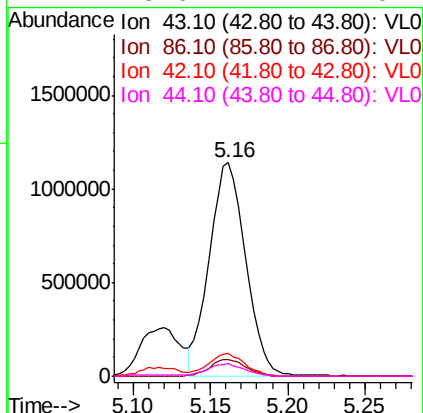
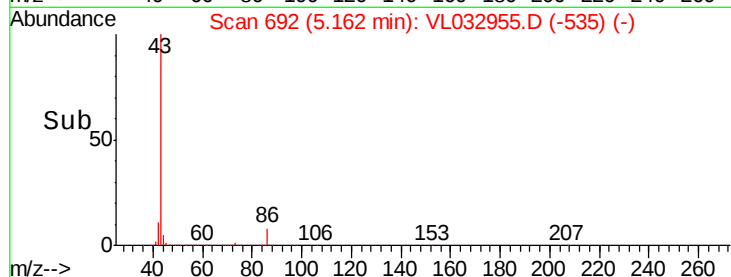
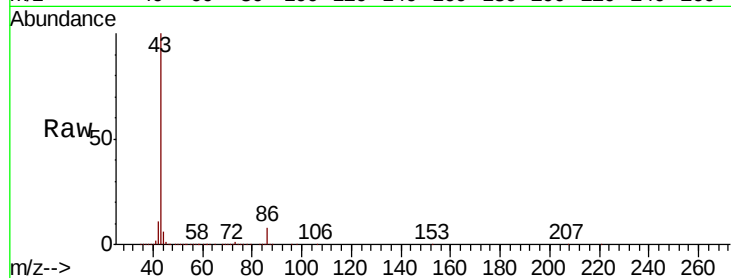
#23
 Vinyl Acetate
 Concen: 9.965 ppbv
 RT: 5.16 min Scan# 692
 Delta R.T. 0.00 min
 Lab File: VL032955.D
 Acq: 11 Dec 2018 15:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1211ABS01

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	8.1	6.6	9.8	
42	10.8	8.3	12.5	
44	5.6	4.2	6.4	

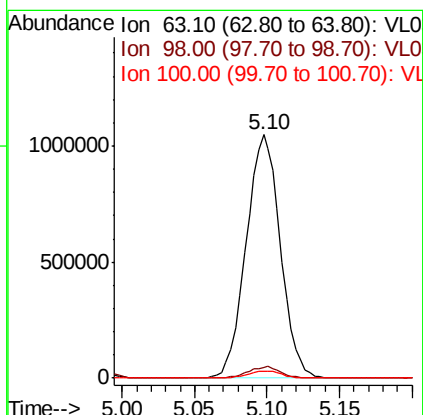
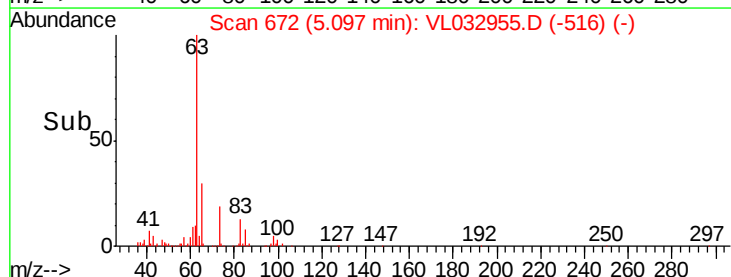
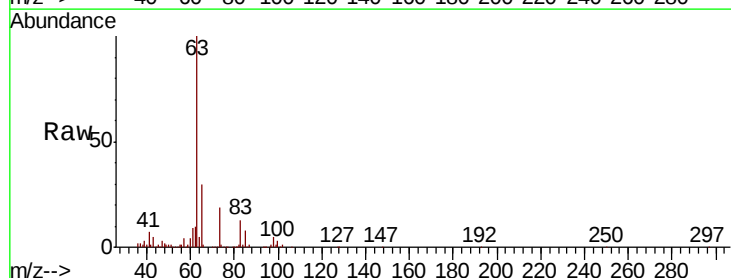
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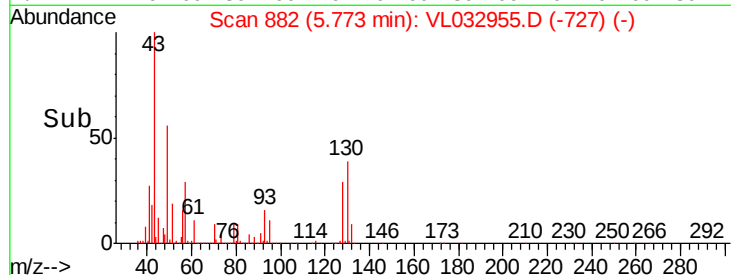
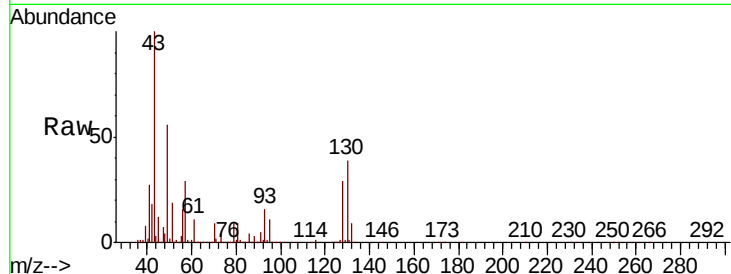
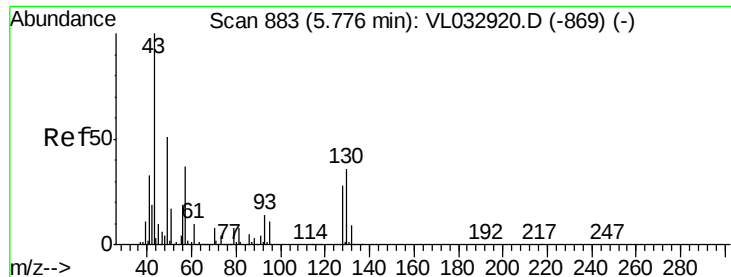
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#24
 1,1-Dichloroethane
 Concen: 10.535 ppbv
 RT: 5.10 min Scan# 672
 Delta R.T. 0.00 min
 Lab File: VL032955.D
 Acq: 11 Dec 2018 15:20

Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	4.6	2.5	7.5	
100	3.0	1.4	4.2	





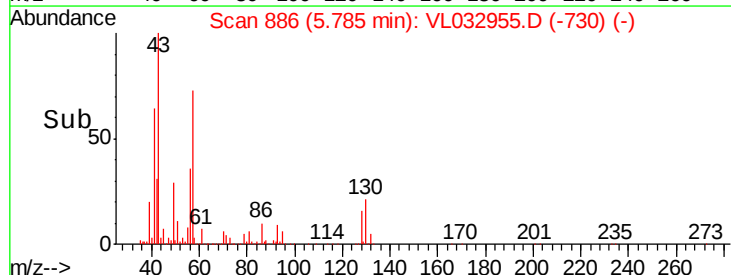
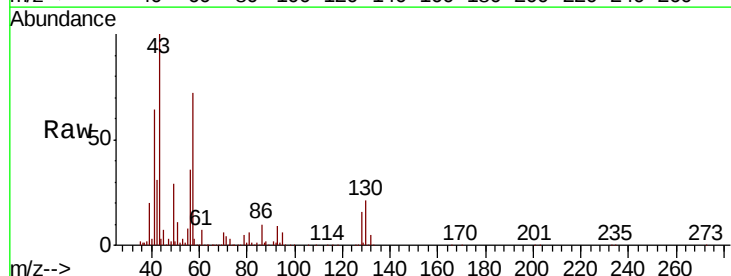
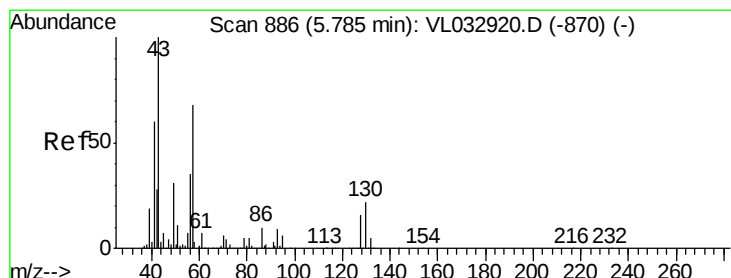
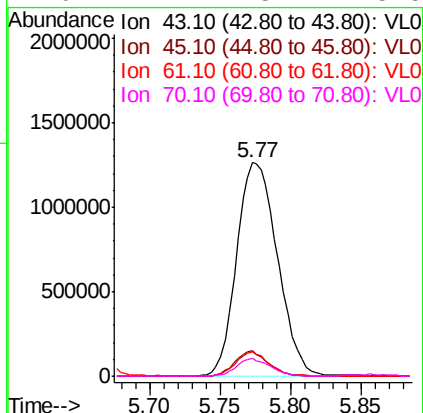
#25
Ethyl Acetate
Concen: 9.772 ppbv
RT: 5.77 min Scan# 882
Delta R.T. -0.00 min
Lab File: VL032955.D
Acq: 11 Dec 2018 15:20

Tot Ion	43	Resp	2557402
Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.8	11.6
61	9.5	7.4	11.2
70	7.1	5.7	8.5

Instrument :
MSVOA_L
ClientSampleId :
VL1211ABS01

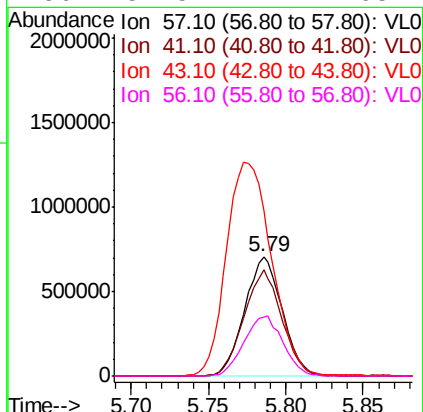
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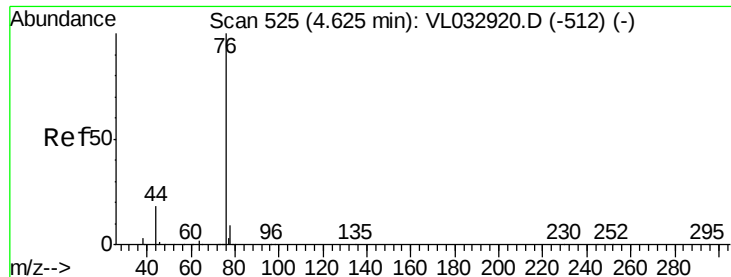
MMDadoda
12/13/2018 7:58:37 AM



#26
Hexane
Concen: 9.835 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.00 min
Lab File: VL032955.D
Acq: 11 Dec 2018 15:20

Tgt Ion	57	Resp	1188310
Ion	Ratio	Lower	Upper
57	100		
41	89.7	72.2	108.2
43	216.0	171.9	257.9
56	52.5	42.2	63.2





#27

Carbon Disulfide

Concen: 10.797 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

Instrument :

MSVOA_L

ClientSampleId :

VL1211ABS01

Tot Ion: 76 Resp: 1631027

Ion Ratio Lower Upper

76 100

44 18.5 14.7 22.1

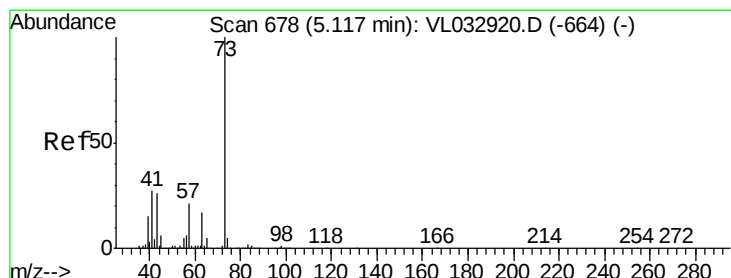
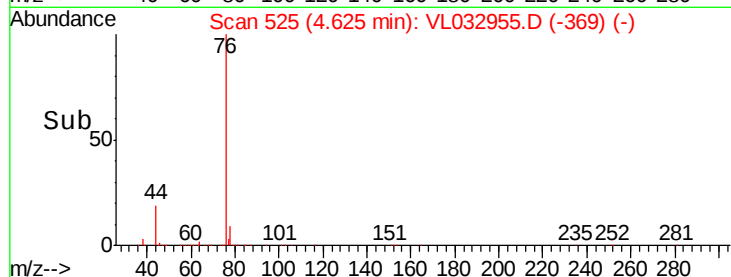
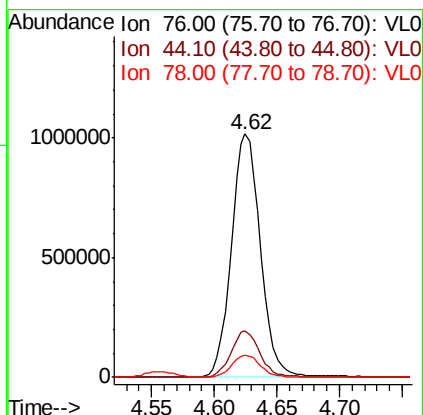
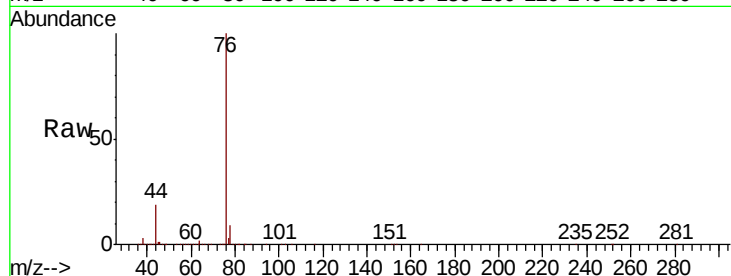
78 9.1 7.4 11.2

Manual Integrations

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#28

Methyl tert-Butyl Ether

Concen: 10.445 ppbv

RT: 5.12 min Scan# 678

Delta R.T. 0.00 min

Lab File: VL032955.D

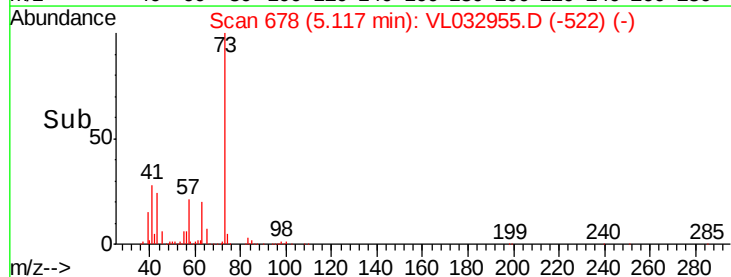
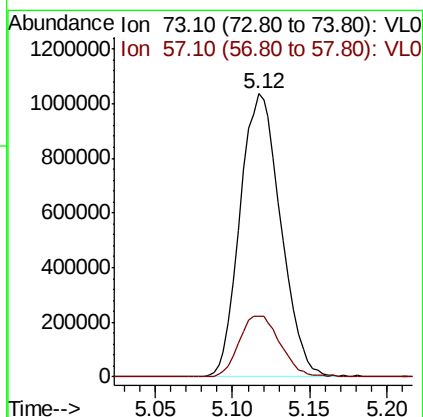
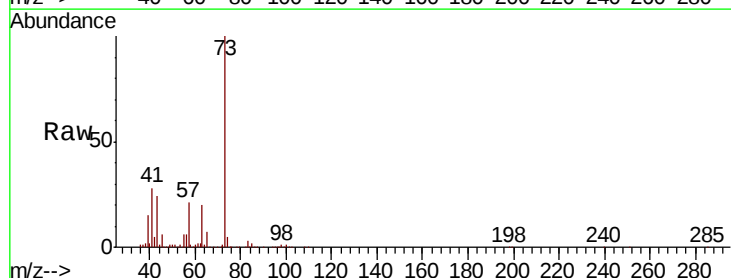
Acq: 11 Dec 2018 15:20

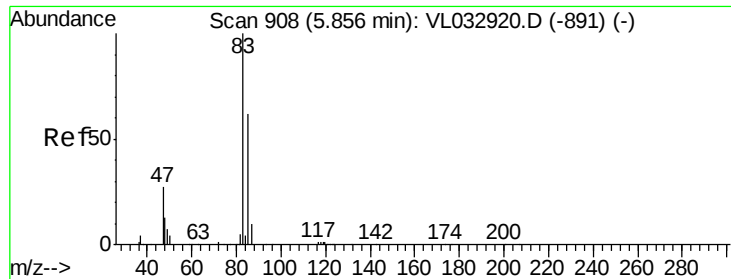
Tgt Ion: 73 Resp: 1895392

Ion Ratio Lower Upper

73 100

57 22.1 17.4 26.0





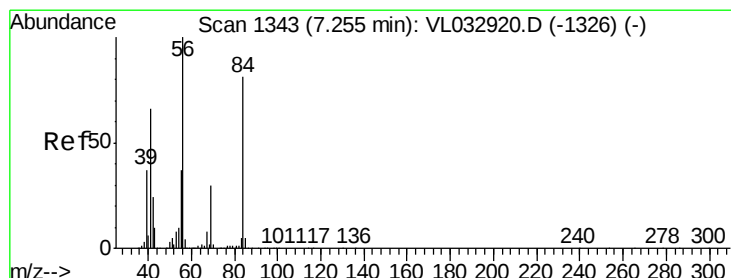
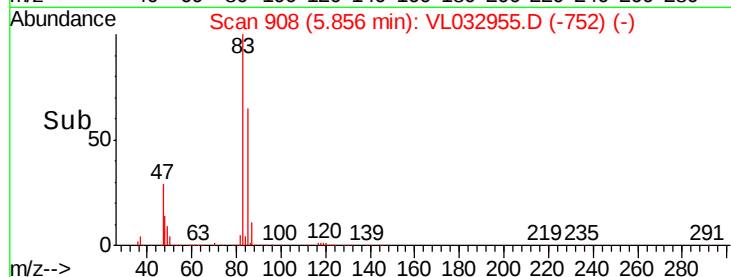
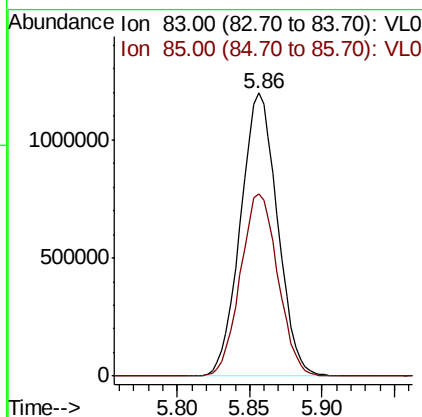
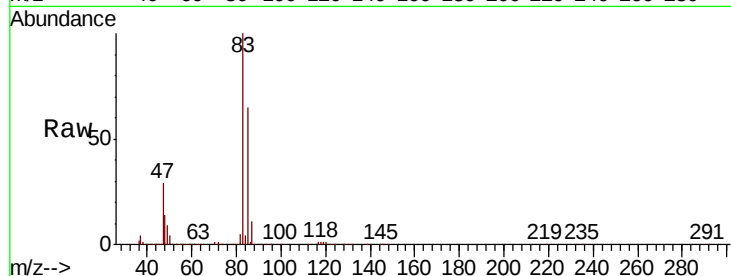
#29
Chloroform
Concen: 9.877 ppbv
RT: 5.86 min Scan# 908
Delta R.T. 0.00 min
Lab File: VL032955.D
Acq: 11 Dec 2018 15:20

Instrument :
MSVOA_L
ClientSampleId :
VL1211ABS01

Tot Ion: 83 Resp: 2129380
Ion Ratio Lower Upper
83 100
85 64.5 49.8 74.8

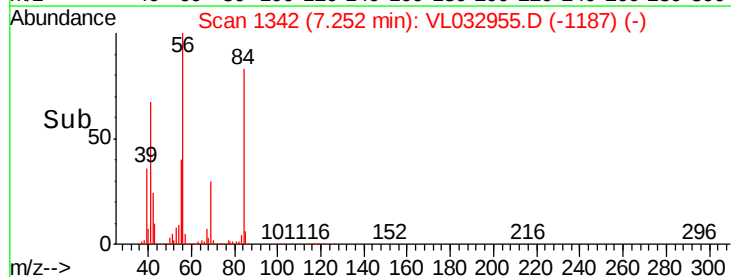
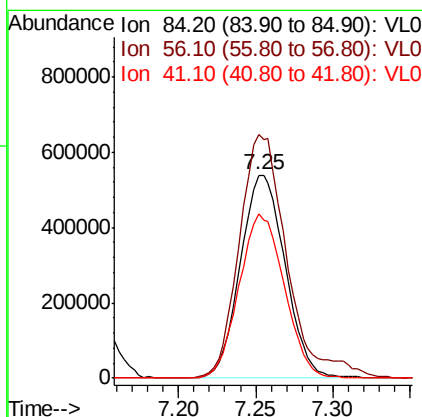
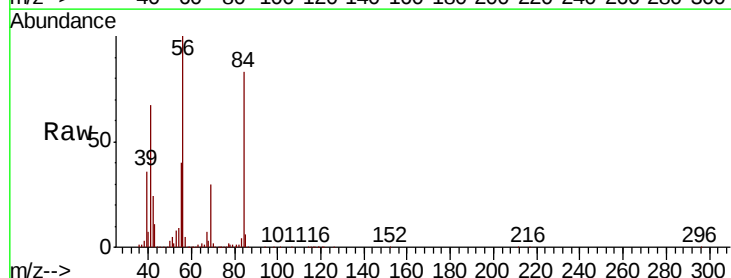
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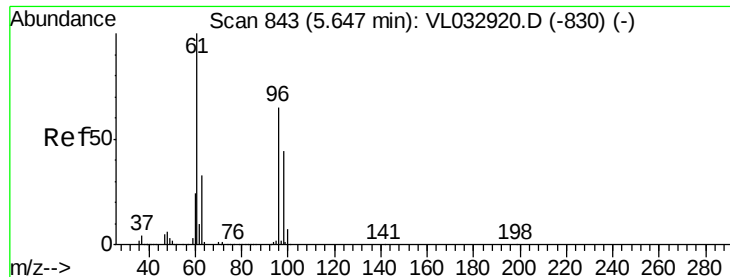
MMDadoda
12/13/2018 7:58:37 AM



#30
Cyclohexane
Concen: 10.801 ppbv
RT: 7.25 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VL032955.D
Acq: 11 Dec 2018 15:20

Tgt Ion: 84 Resp: 1081641
Ion Ratio Lower Upper
84 100
56 128.6 102.5 153.7
41 81.8 64.1 96.1





#31

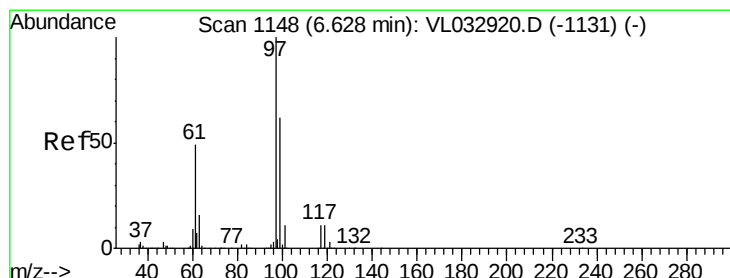
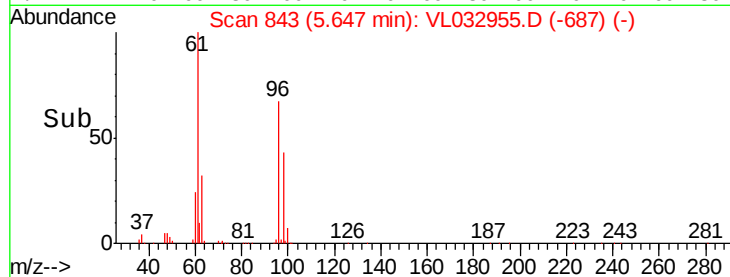
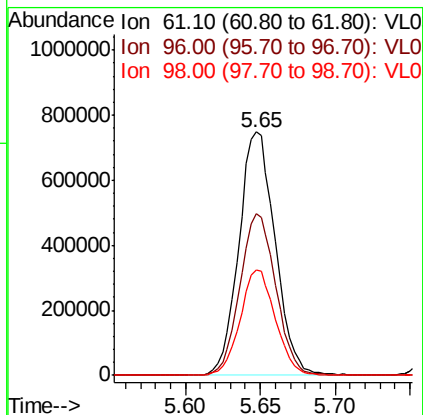
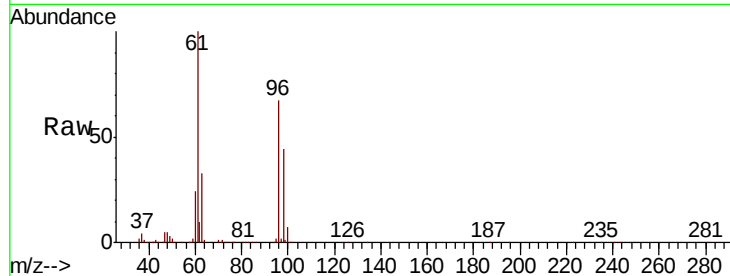
cis-1,2-Dichloroethene
Concen: 11.378 ppbv
RT: 5.65 min Scan# 843
Delta R.T. 0.00 min
Lab File: VL032955.D
Acq: 11 Dec 2018 15:20

Instrument :
MSVOA_L
ClientSampleId :
VL1211ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	66.5	51.9	77.9
98	43.5	35.0	52.4

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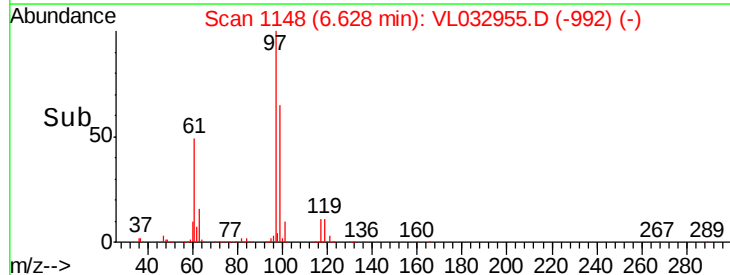
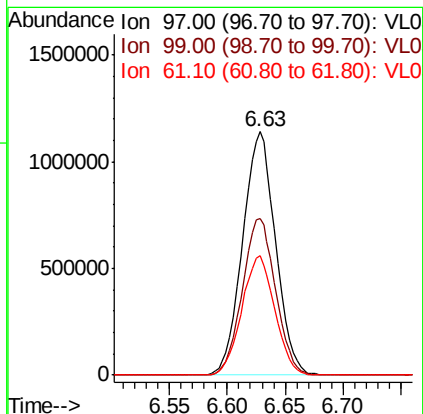
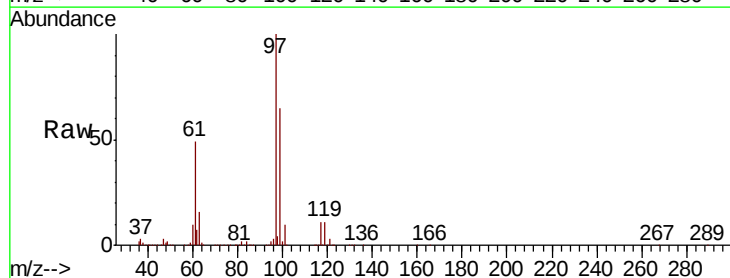
MMDadoda
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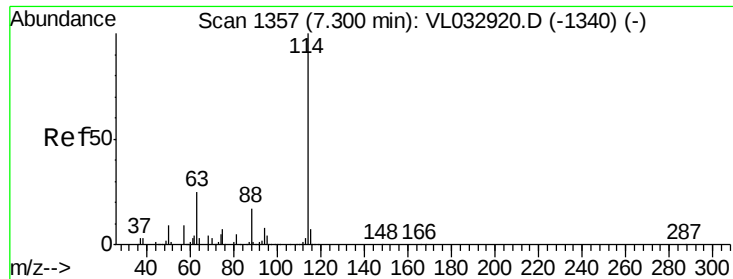


#32

1,1,1-Trichloroethane
Concen: 9.880 ppbv
RT: 6.63 min Scan# 1148
Delta R.T. 0.00 min
Lab File: VL032955.D
Acq: 11 Dec 2018 15:20

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.1	76.7
61	49.2	39.3	58.9





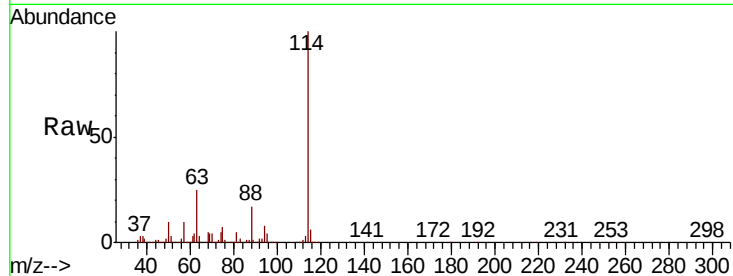
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1358
 Delta R.T. 0.00 min
 Lab File: VL032955.D
 Acq: 11 Dec 2018 15:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1211ABS01

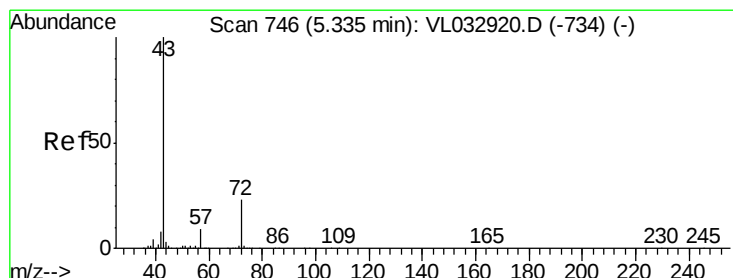
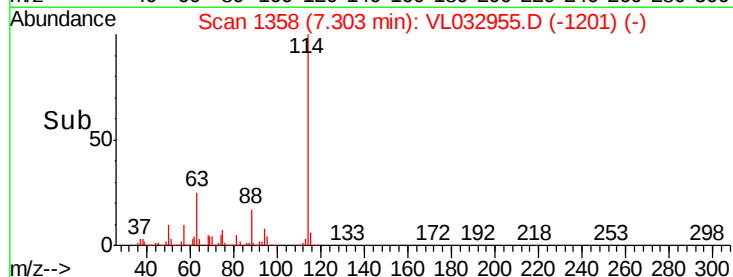
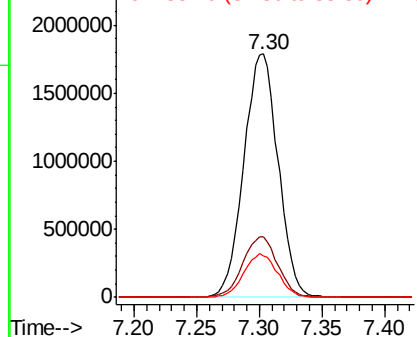
Tot Ion:114 Resp: 3401834
 Ion Ratio Lower Upper
 114 100
 63 25.4 20.1 30.1
 88 17.7 14.2 21.4

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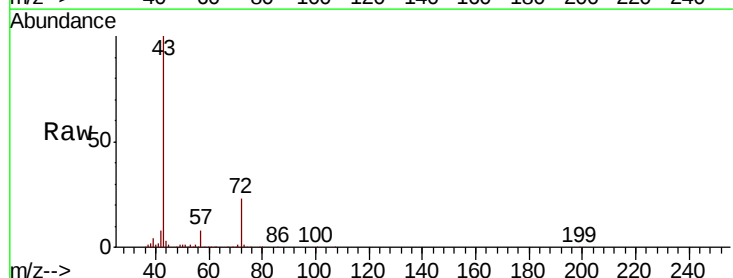


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

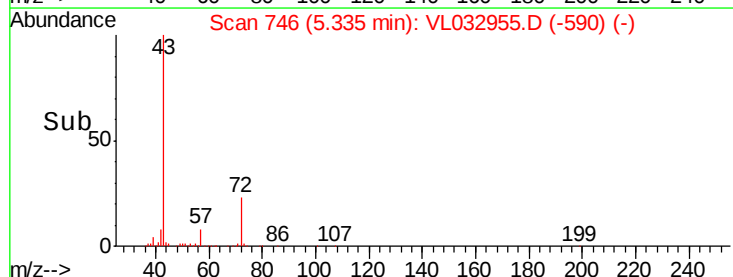
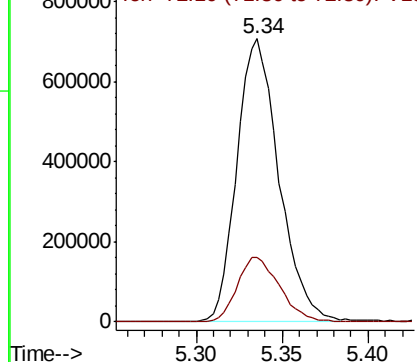


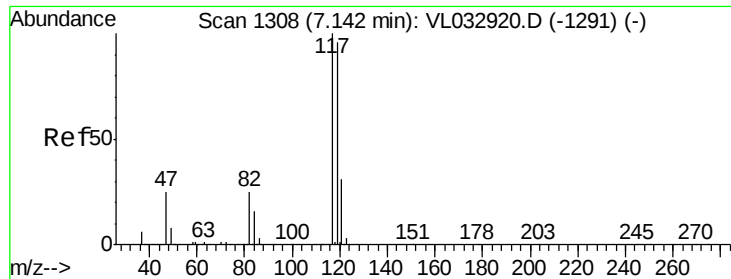
#34
 2-Butanone
 Concen: 8.070 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. 0.00 min
 Lab File: VL032955.D
 Acq: 11 Dec 2018 15:20

Tgt Ion: 43 Resp: 1195856
 Ion Ratio Lower Upper
 43 100
 72 23.2 18.8 28.2



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





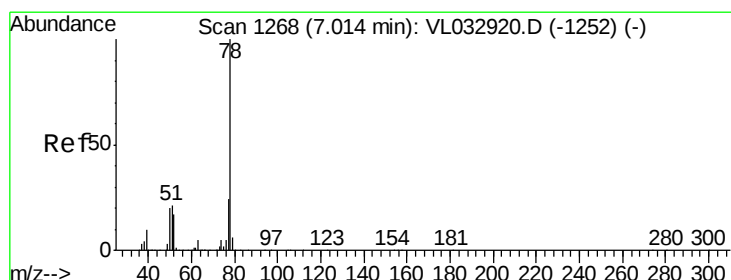
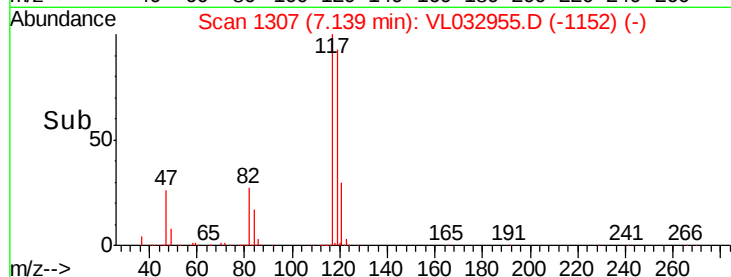
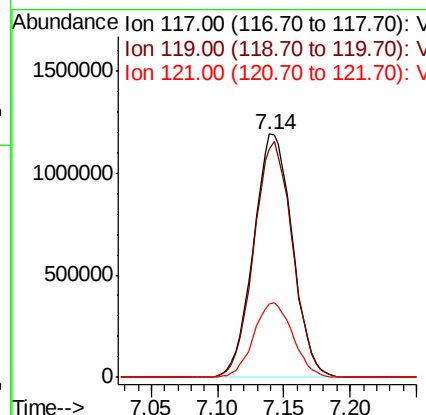
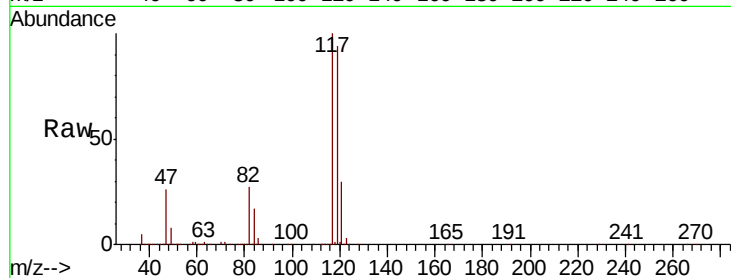
#35
Carbon Tetrachloride
Concen: 9.116 ppbv
RT: 7.14 min Scan# 1307
Delta R.T. -0.00 min
Lab File: VL032955.D
Acq: 11 Dec 2018 15:20

Instrument :
MSVOA_L
ClientSampleId :
VL1211ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
119	93.8	76.5	114.7
121	30.4	24.5	36.7

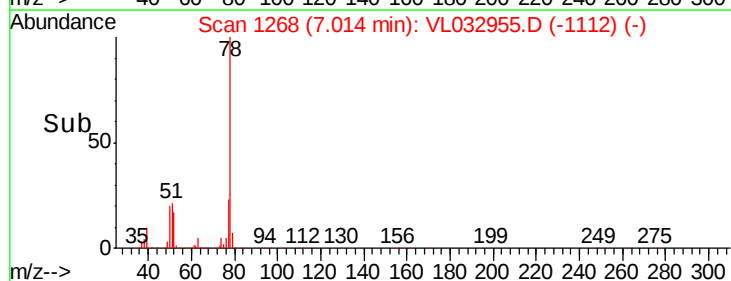
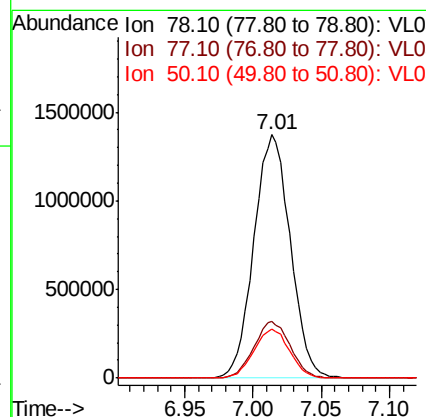
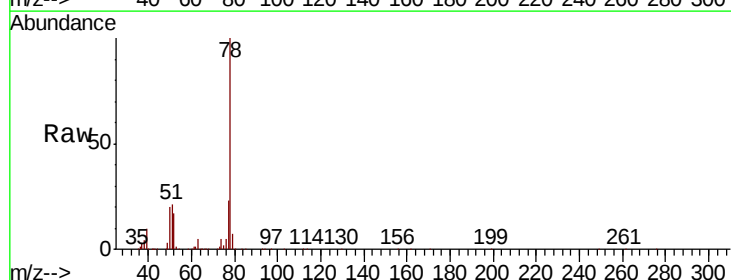
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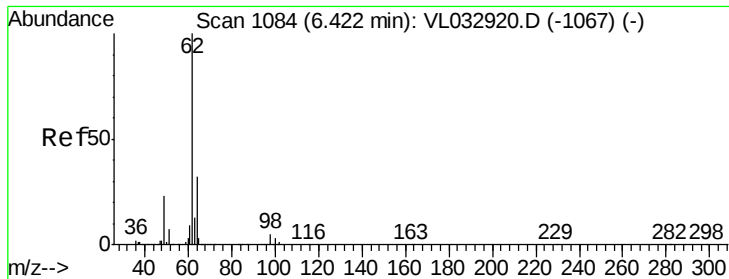
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#36
Benzene
Concen: 10.170 ppbv
RT: 7.01 min Scan# 1268
Delta R.T. 0.00 min
Lab File: VL032955.D
Acq: 11 Dec 2018 15:20

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.9	28.3
50	20.2	16.1	24.1





#37

1,2-Dichloroethane

Concen: 9.436 ppbv

RT: 6.42 min Scan# 1083

Delta R.T. -0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

Instrument :

MSVOA_L

ClientSampleId :

VL1211ABS01

Tot Ion: 62 Resp: 1607493

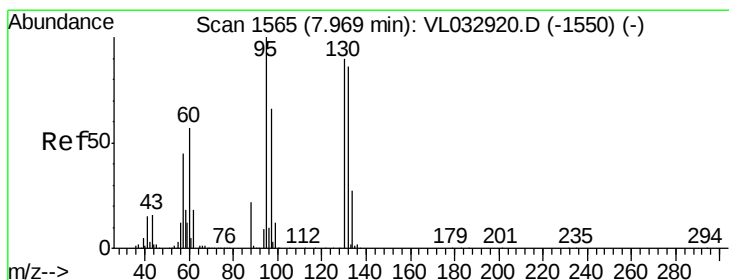
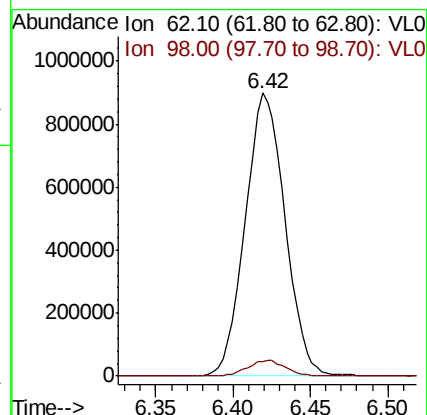
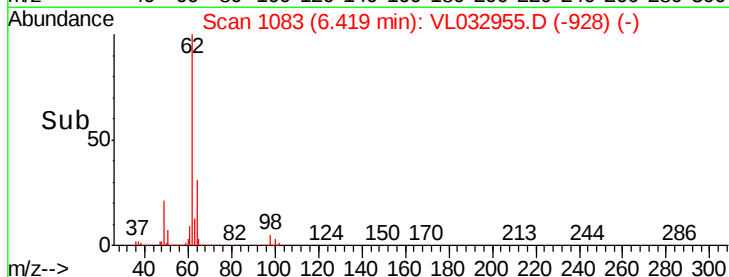
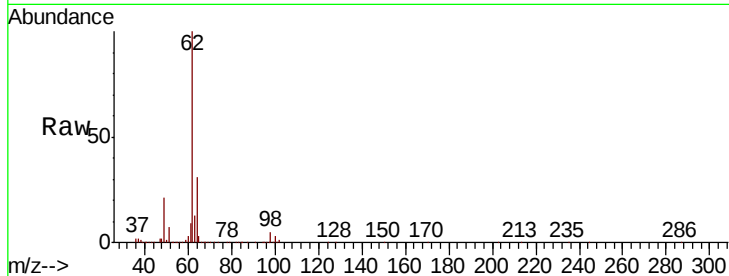
Ion Ratio Lower Upper

62 100

98 5.6 4.3 6.5

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#38

Trichloroethene

Concen: 10.496 ppbv

RT: 7.97 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

Tgt Ion:130 Resp: 1092962

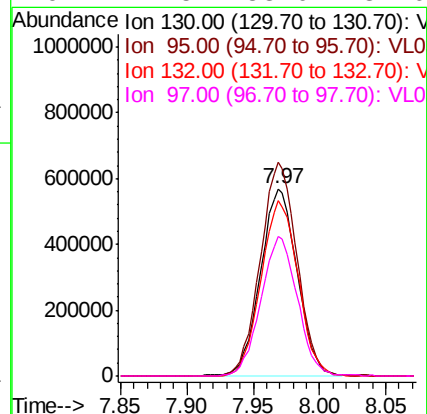
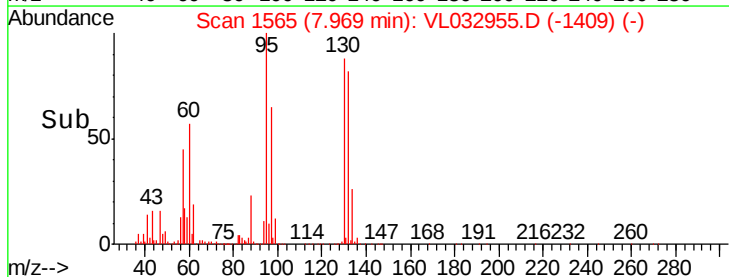
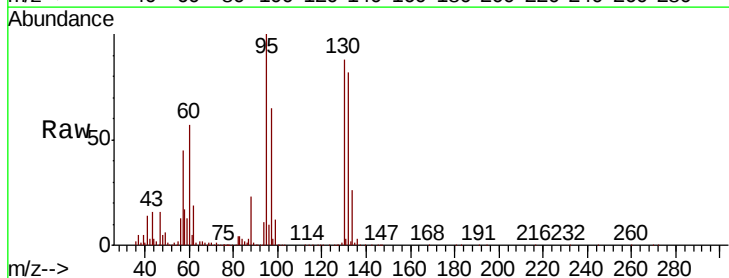
Ion Ratio Lower Upper

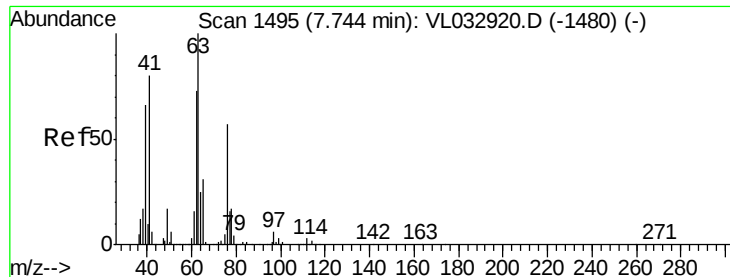
130 100

95 114.1 88.6 132.8

132 93.7 76.1 114.1

97 74.5 58.0 87.0





#39

1,2-Dichloropropane

Concen: 10.289 ppbv

RT: 7.74 min Scan# 1495

Delta R.T. 0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

Instrument :

MSVOA_L

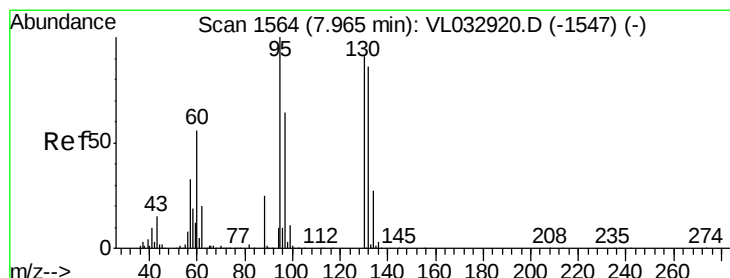
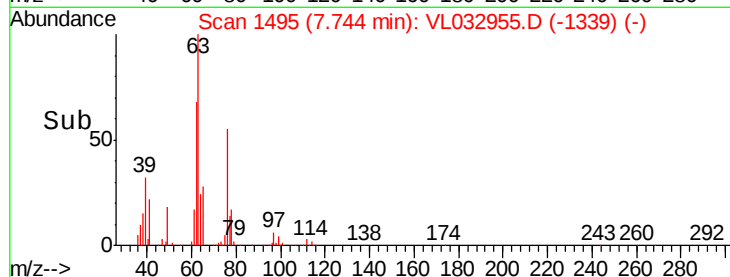
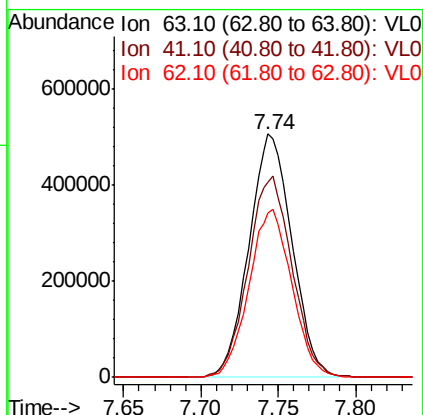
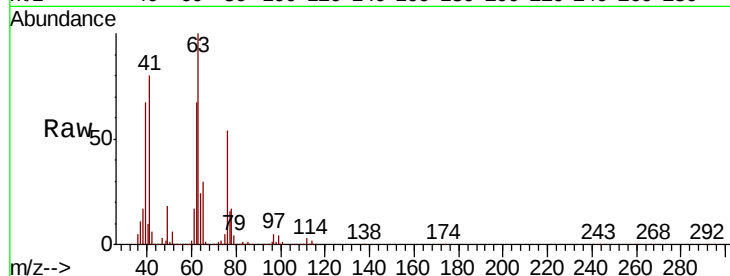
ClientSampleId :

VL1211ABS01

Tot Ion:	63	Resp:	976312
Ion	Ratio	Lower	Upper
63	100		
41	80.1	63.9	95.9
62	67.2	58.8	88.2

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#40

1,4-Dioxane

Concen: 10.469 ppbv

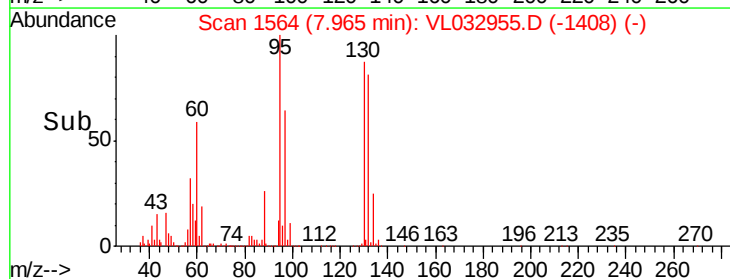
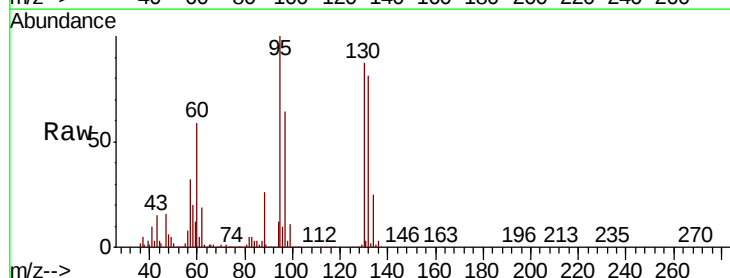
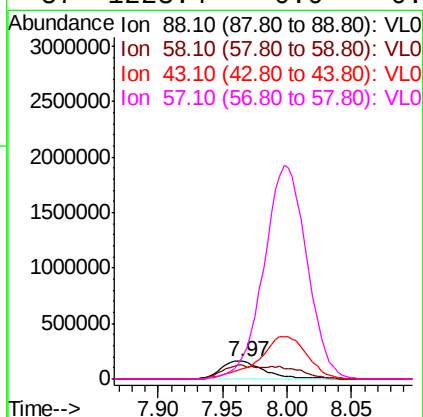
RT: 7.97 min Scan# 1564

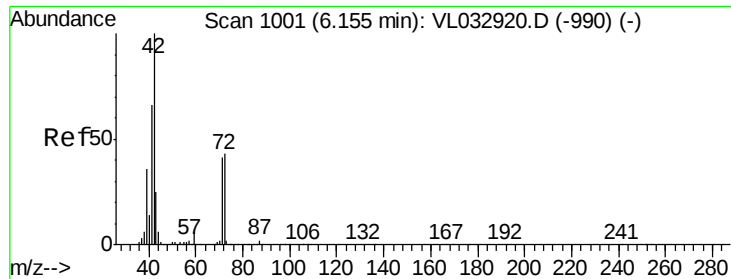
Delta R.T. 0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

Tgt Ion:	88	Resp:	365929
Ion	Ratio	Lower	Upper
88	100		
58	127.4	107.4	161.2
43	273.3	0.0	0.0#
57	1223.4	0.0	0.0#





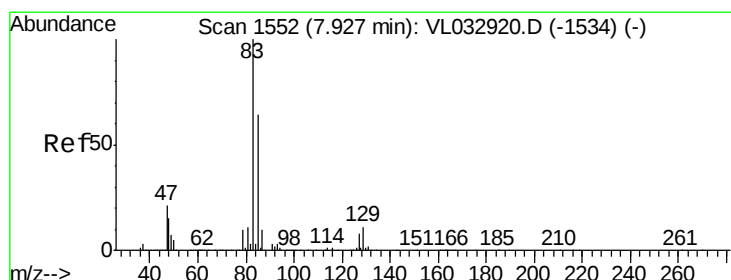
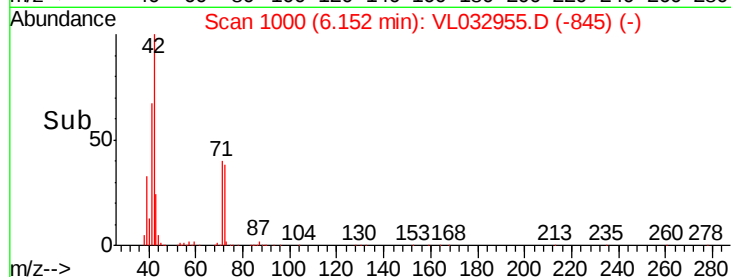
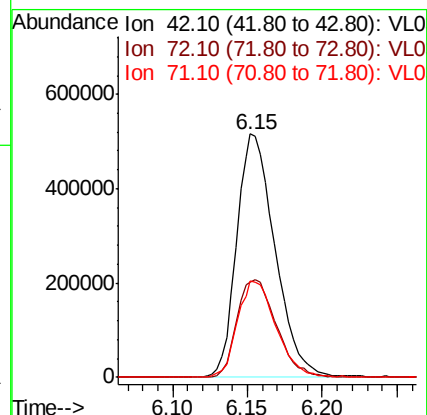
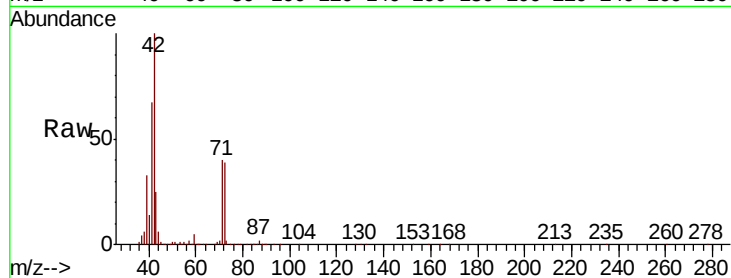
#41
Tetrahydrofuran
Concen: 9.976 ppbv
RT: 6.15 min Scan# 1000
Delta R.T. -0.00 min
Lab File: VL032955.D
Acq: 11 Dec 2018 15:20

Instrument :
MSVOA_L
ClientSampleId :
VL1211ABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.6	32.9	49.3
71	40.2	32.0	48.0

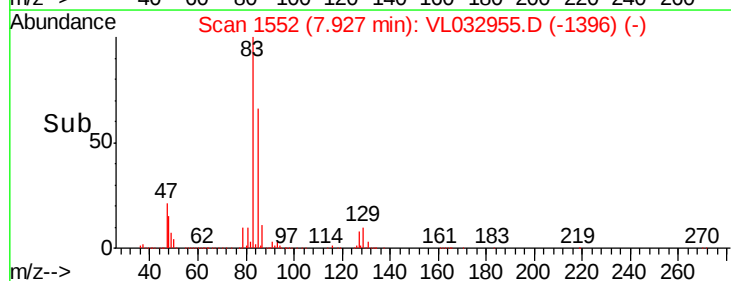
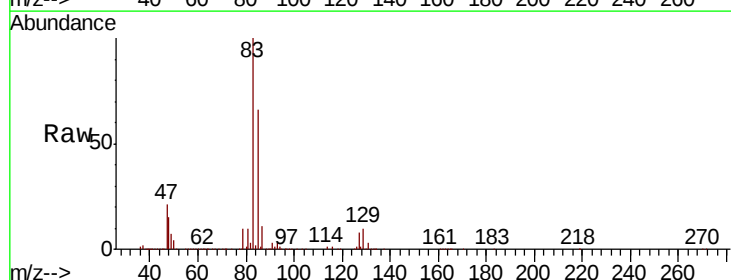
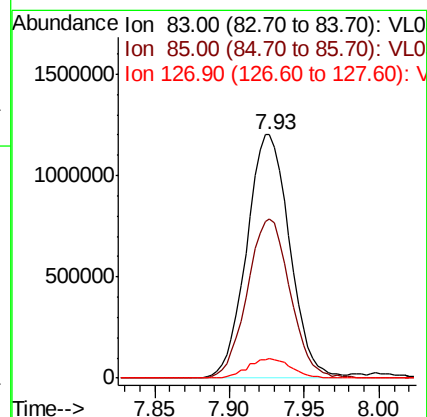
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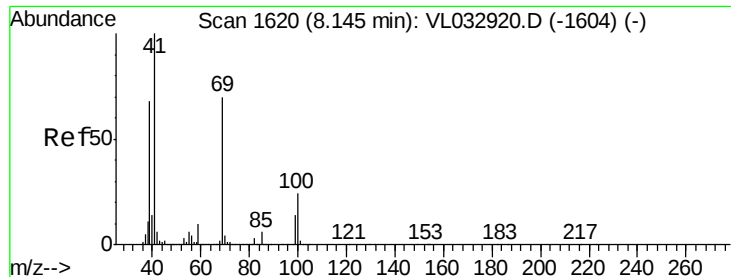
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12/13/2018 7:58:37 AM



#42
Bromodichloromethane
Concen: 10.164 ppbv
RT: 7.93 min Scan# 1552
Delta R.T. 0.00 min
Lab File: VL032955.D
Acq: 11 Dec 2018 15:20

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.6	50.9	76.3
127	8.3	6.7	10.1





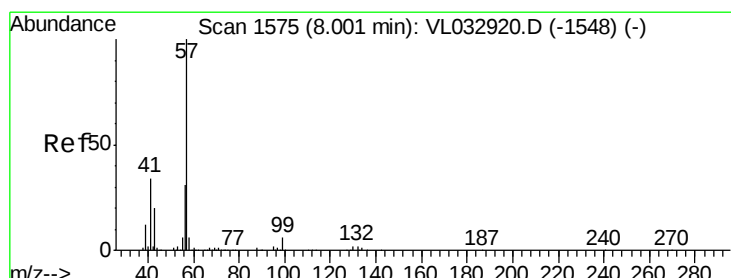
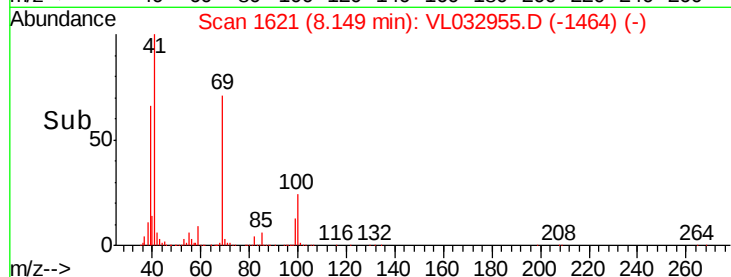
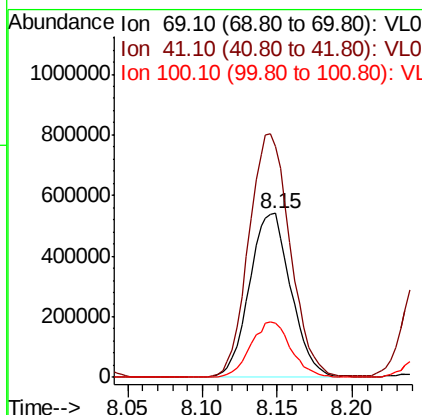
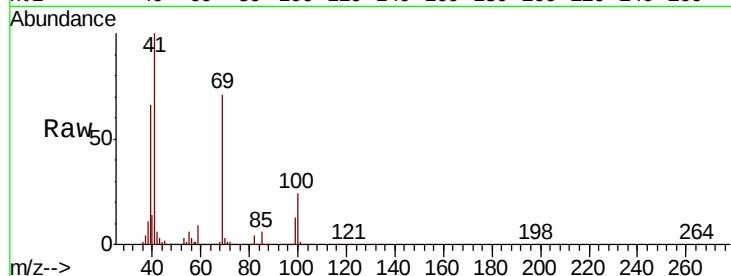
#43
Methvl Methacrilate
Concen: 11.250 ppbv
RT: 8.15 min Scan# 1621
Delta R.T. 0.00 min
Lab File: VL032955.D
Acq: 11 Dec 2018 15:20

Instrument :
MSVOA_L
ClientSampleId :
VL1211ABS01

Tot Ion: 69 Resp: 1043077
Ion Ratio Lower Upper
69 100
41 148.1 116.6 175.0
100 32.9 26.5 39.7

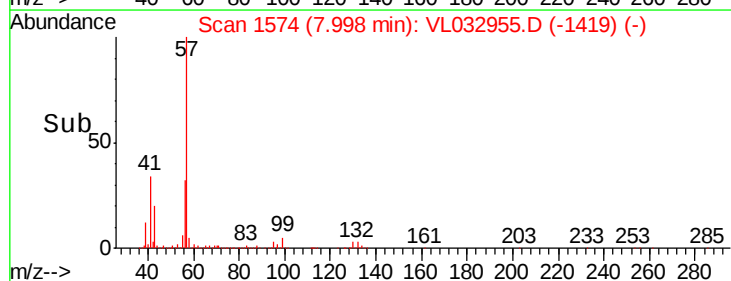
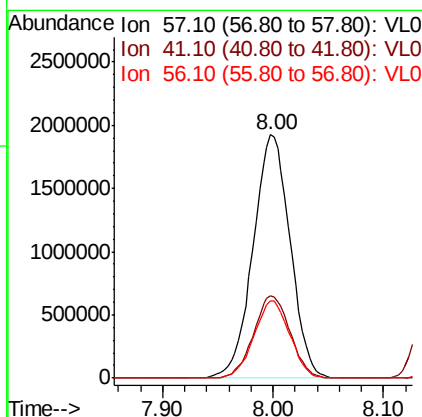
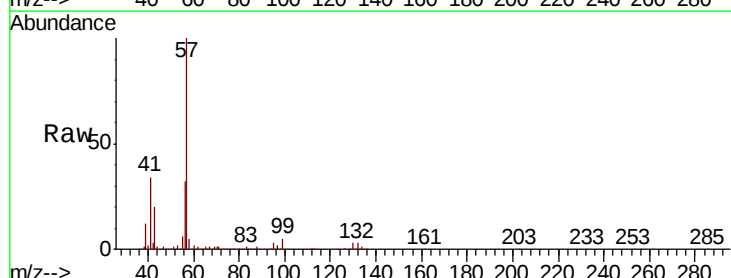
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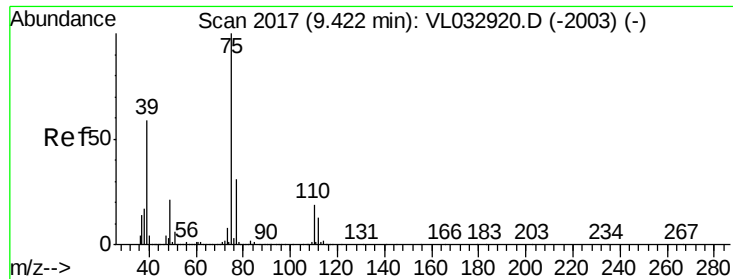
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 10.528 ppbv
RT: 8.00 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VL032955.D
Acq: 11 Dec 2018 15:20

Tgt Ion: 57 Resp: 4471615
Ion Ratio Lower Upper
57 100
41 33.5 27.0 40.4
56 30.9 24.6 37.0





#45

t-1,3-Dichloropropene

Concen: 12.440 ppbv

RT: 9.43 min Scan# 2018

Delta R.T. 0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

Instrument :

MSVOA_L

ClientSampleId :

VL1211ABS01

Tot Ion: 75 Resp: 1414115

Ion Ratio Lower Upper

75 100

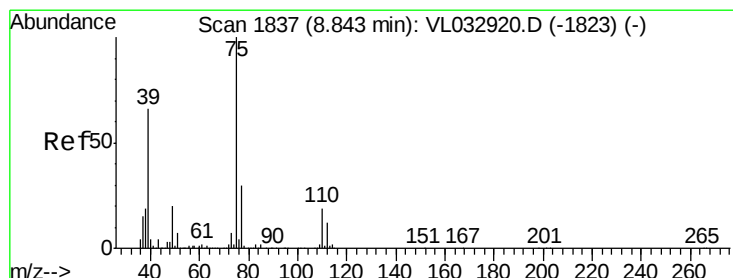
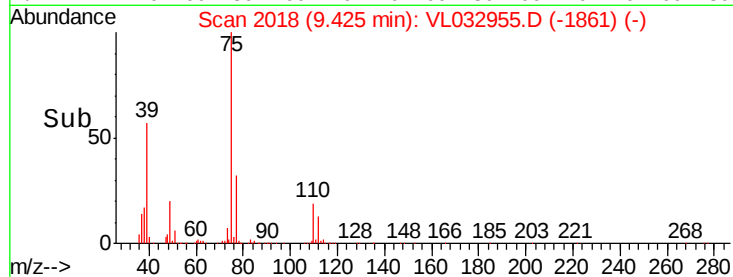
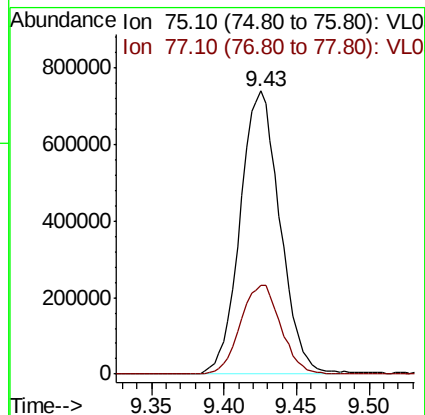
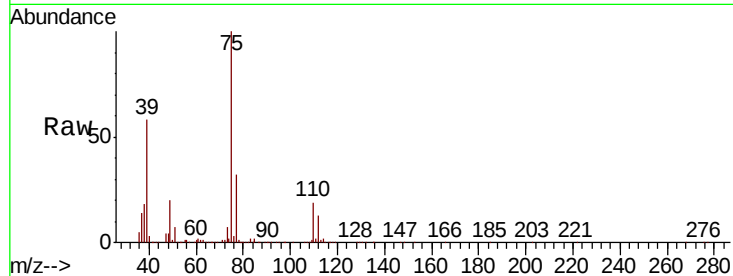
77 31.6 24.8 37.2

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#46

cis-1,3-Dichloropropene

Concen: 11.575 ppbv

RT: 8.84 min Scan# 1837

Delta R.T. 0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

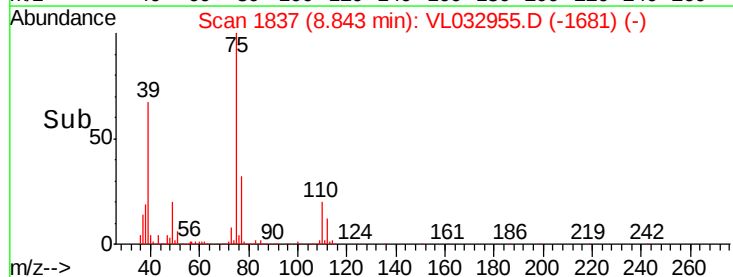
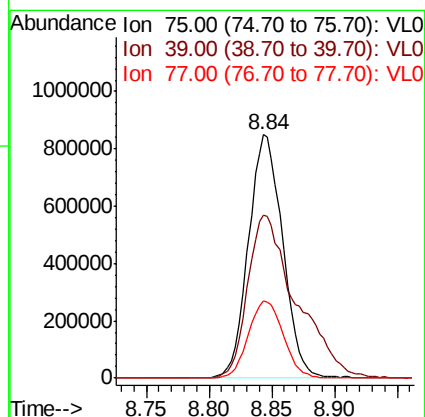
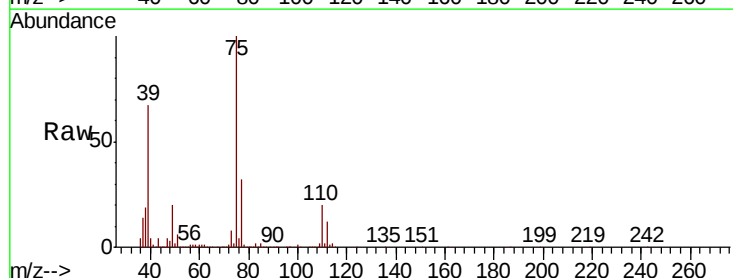
Tgt Ion: 75 Resp: 1610481

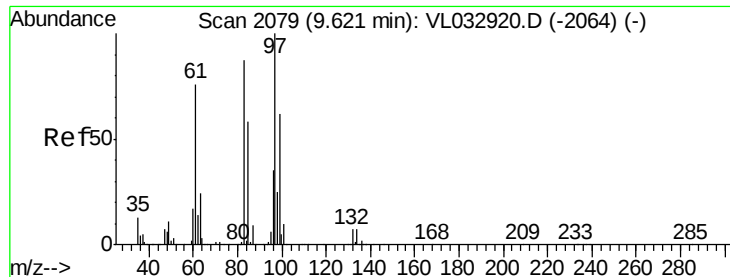
Ion Ratio Lower Upper

75 100

39 66.9 52.8 79.2

77 31.9 24.3 36.5





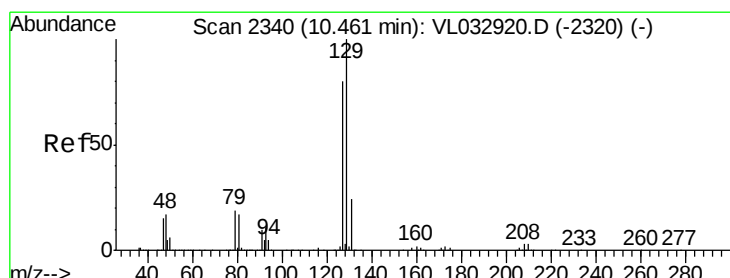
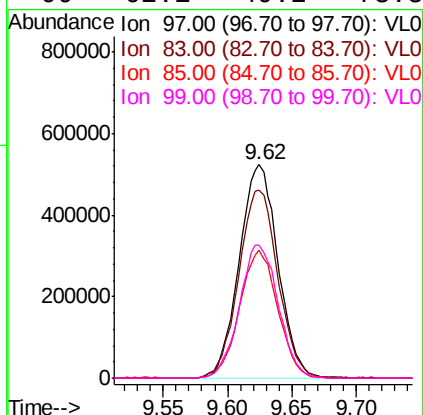
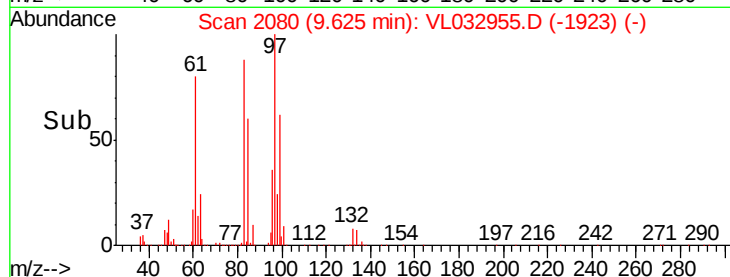
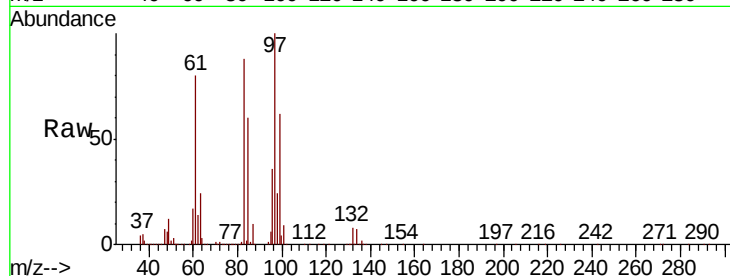
#47
 1,1,2-Trichloroethane
 Concen: 10.501 ppbv
 RT: 9.62 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VL032955.D
 Acq: 11 Dec 2018 15:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1211ABS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	87.9	69.8	104.8
85	59.8	46.7	70.1
99	62.1	49.2	73.8

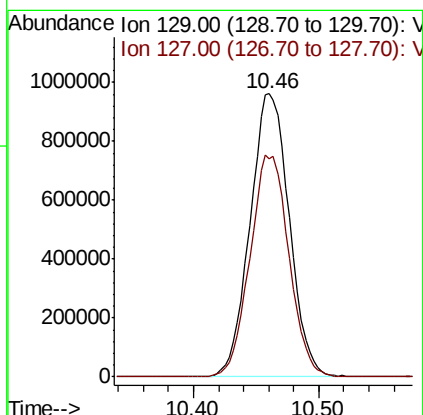
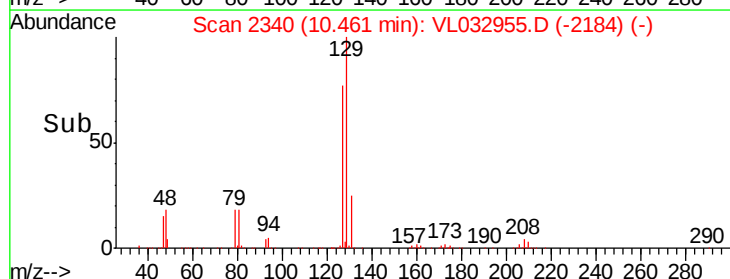
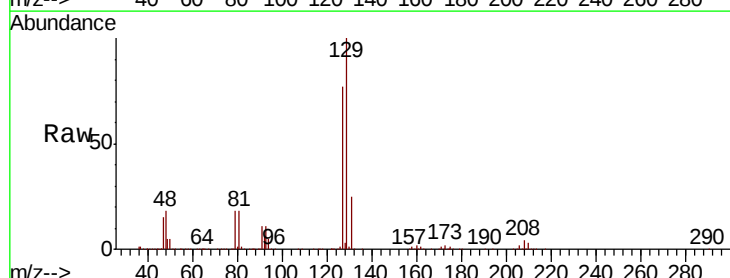
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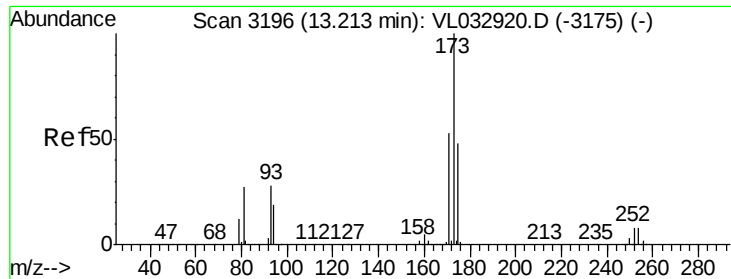
MMDadoda
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#48
 Dibromochloromethane
 Concen: 10.665 ppbv
 RT: 10.46 min Scan# 2340
 Delta R.T. 0.00 min
 Lab File: VL032955.D
 Acq: 11 Dec 2018 15:20

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.2	39.3	117.8





#49

Bromoform

Concen: 11.047 ppbv

RT: 13.21 min Scan# 3196

Delta R.T. 0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

Instrument :

MSVOA_L

ClientSampleId :

VL1211ABS01

Tot Ion:173 Resp: 1780329

Ion Ratio Lower Upper

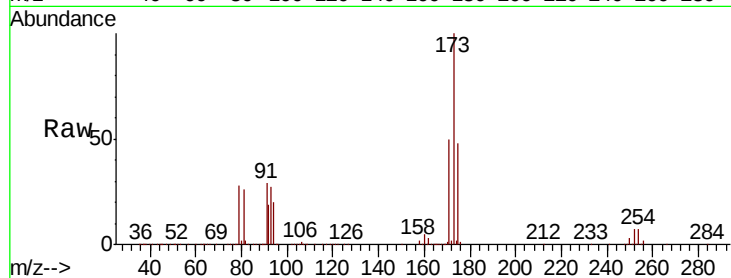
173 100

175 48.2 39.0 58.4

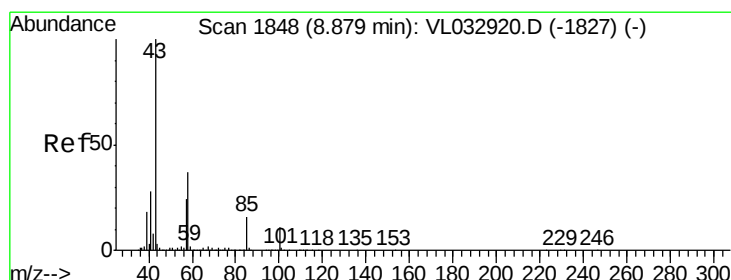
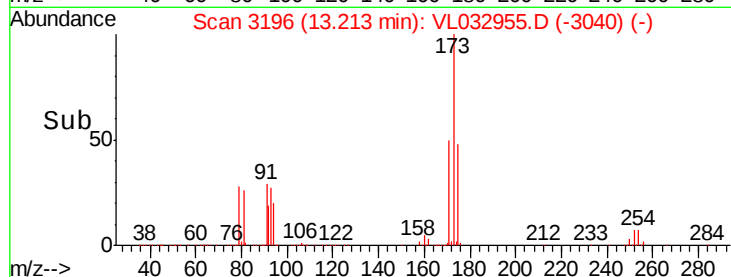
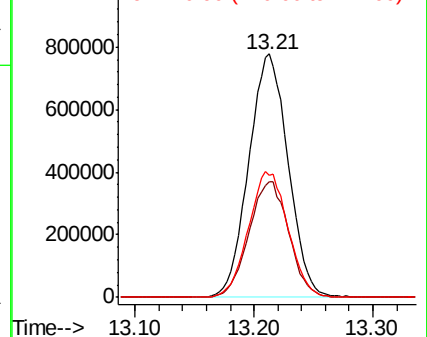
171 51.8 41.5 62.3

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



#50

4-Methyl-2-Pentanone

Concen: 10.558 ppbv

RT: 8.88 min Scan# 1848

Delta R.T. 0.00 min

Lab File: VL032955.D

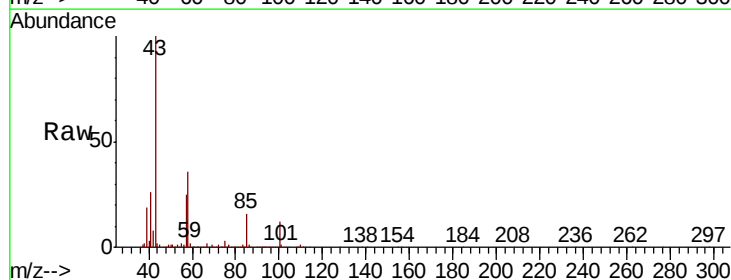
Acq: 11 Dec 2018 15:20

Tgt Ion: 43 Resp: 2501659

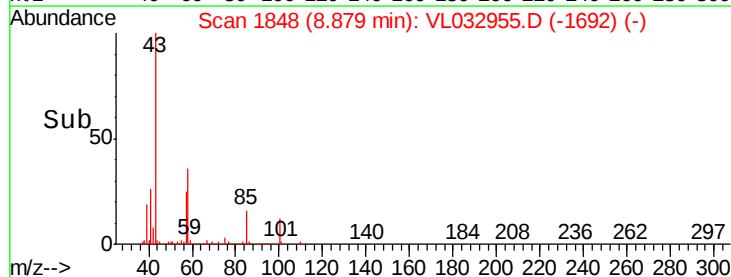
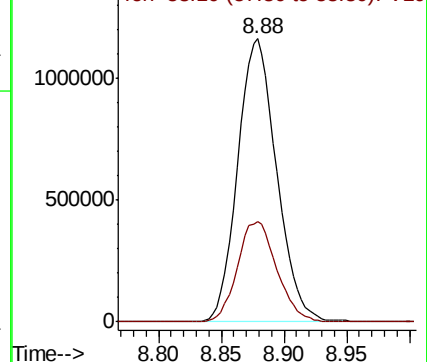
Ion Ratio Lower Upper

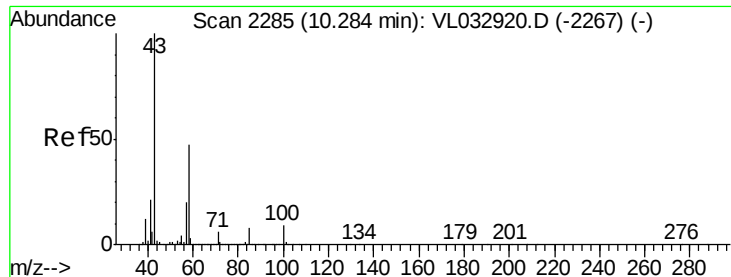
43 100

58 36.0 29.0 43.4



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





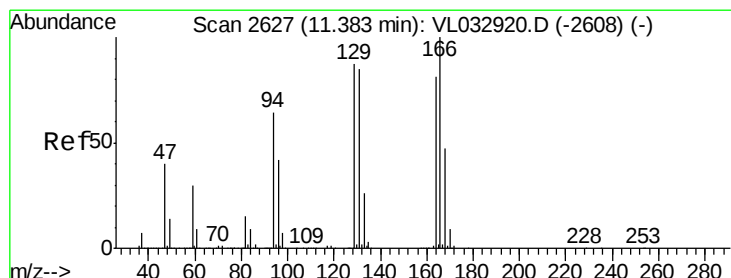
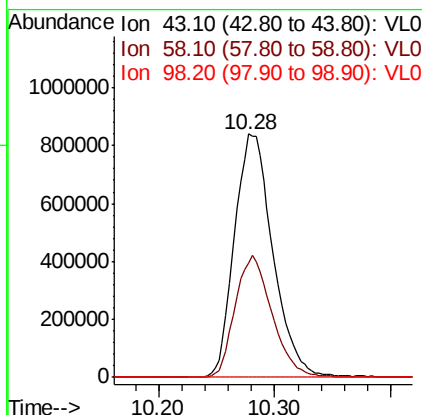
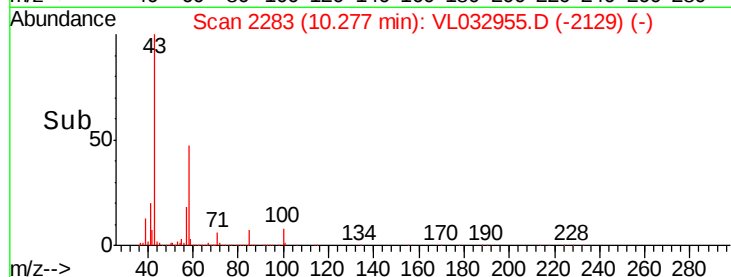
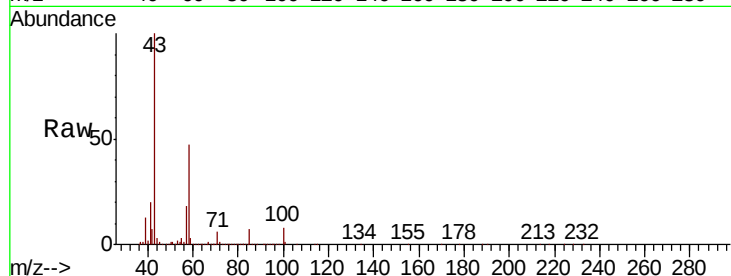
#51
2-Hexanone
Concen: 11.999 ppbv
RT: 10.28 min Scan# 2283
Delta R.T. -0.01 min
Lab File: VL032955.D
Acq: 11 Dec 2018 15:20

Instrument :
MSVOA_L
ClientSampleId :
VL1211ABS01

Tot Ion: 43 Resp: 1928186
Ion Ratio Lower Upper
43 100
58 48.2 38.1 57.1
98 0.5 0.4 0.6

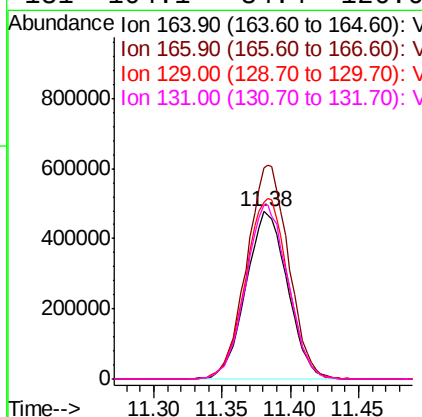
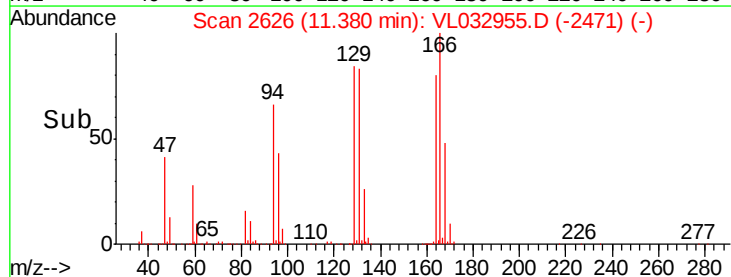
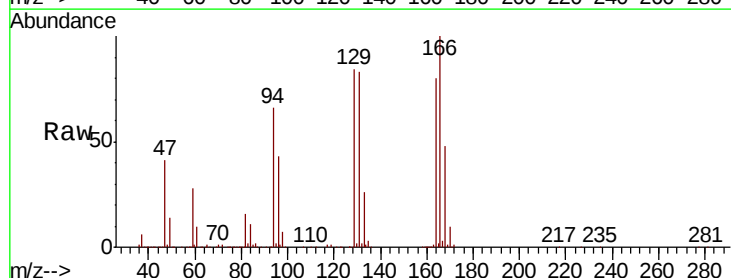
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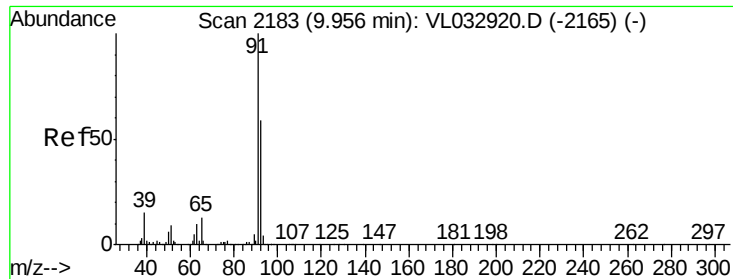
MMDadoda
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#52
Tetrachloroethene
Concen: 11.079 ppbv
RT: 11.38 min Scan# 2626
Delta R.T. -0.00 min
Lab File: VL032955.D
Acq: 11 Dec 2018 15:20

Tgt Ion:164 Resp: 1008381
Ion Ratio Lower Upper
164 100
166 125.6 98.8 148.2
129 105.6 85.5 128.3
131 104.1 84.4 126.6





#53

Toluene

Concen: 12.401 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. 0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

Instrument :

MSVOA_L

ClientSampleId :

VL1211ABS01

Tot Ion: 91 Resp: 3290786

Ion Ratio Lower Upper

91 100

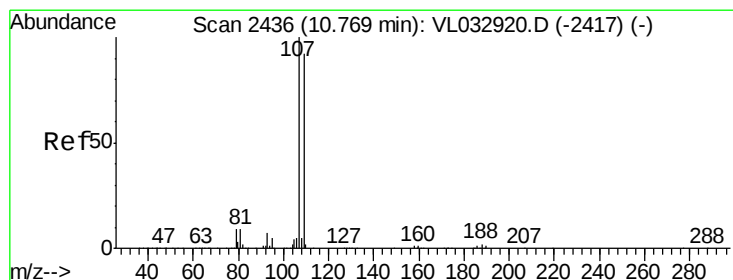
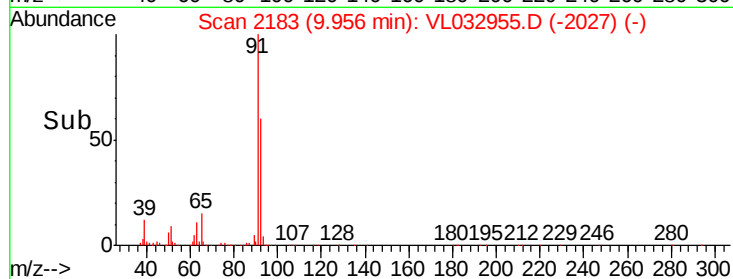
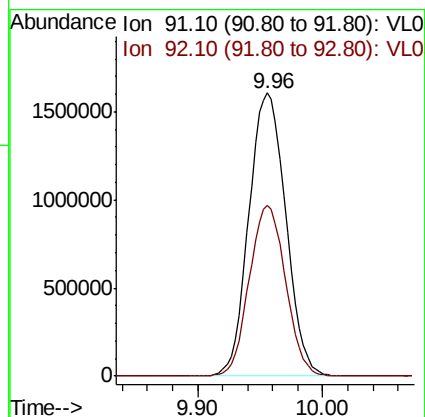
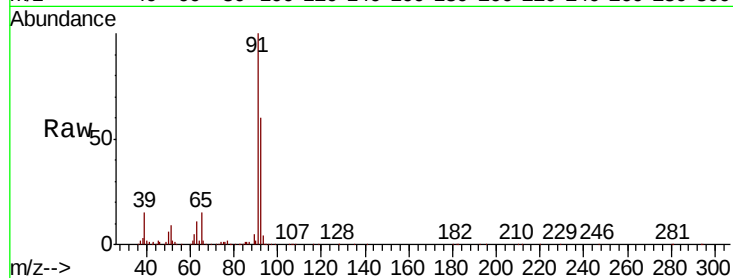
92 59.4 47.4 71.0

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#54

1,2-Dibromoethane

Concen: 10.496 ppbv

RT: 10.77 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VL032955.D

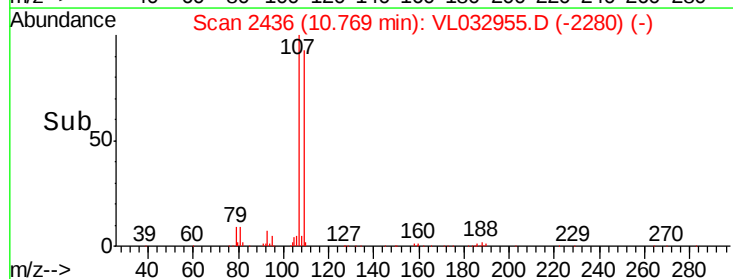
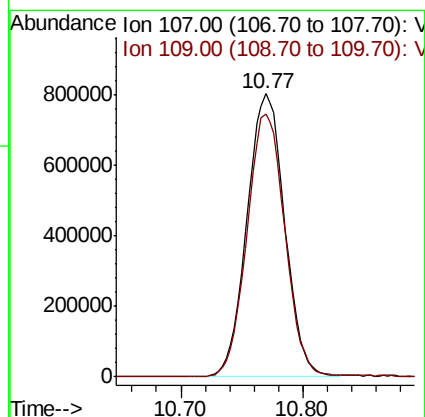
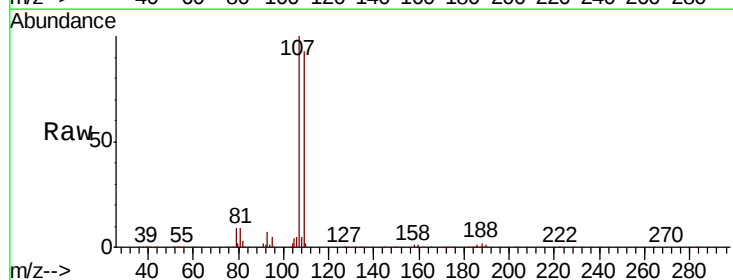
Acq: 11 Dec 2018 15:20

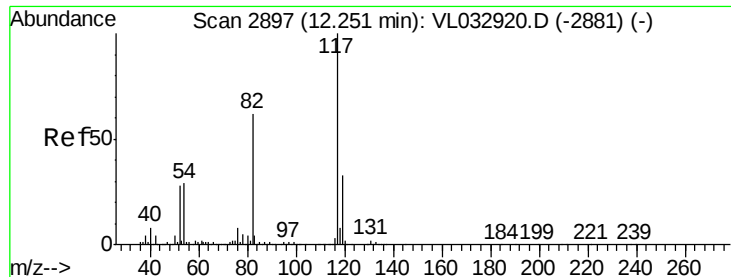
Tgt Ion: 107 Resp: 1712626

Ion Ratio Lower Upper

107 100

109 92.8 73.4 110.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.25 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

Instrument :

MSVOA_L

ClientSampleId :

VL1211ABS01

Tot Ion:117 Resp: 3350538

Ion Ratio Lower Upper

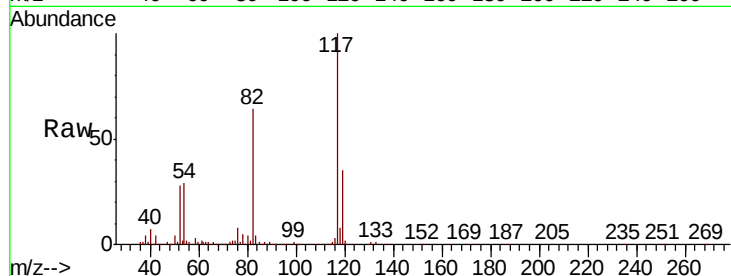
117 100

82 63.6 47.8 71.8

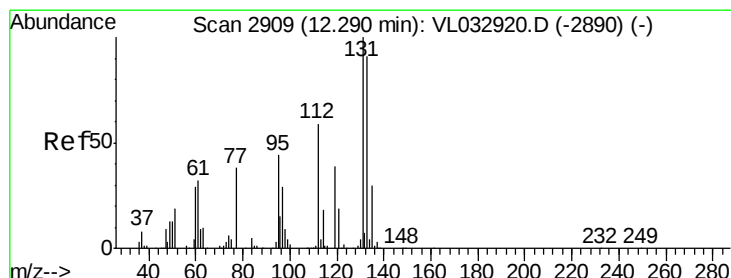
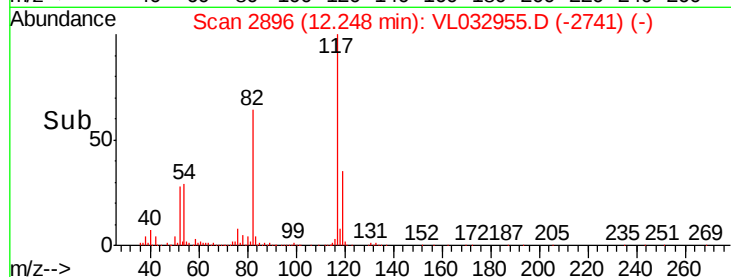
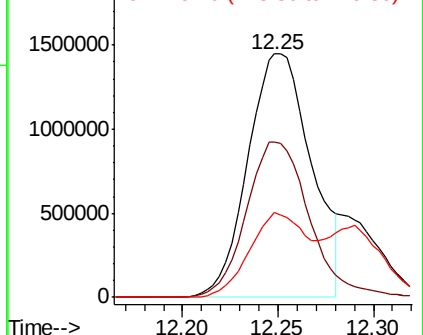
119 57.8 43.1 64.7

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Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 9.775 ppbv

RT: 12.29 min Scan# 2909

Delta R.T. 0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

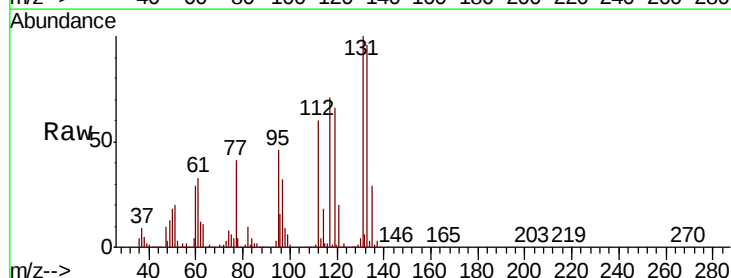
Tgt Ion:131 Resp: 1460184

Ion Ratio Lower Upper

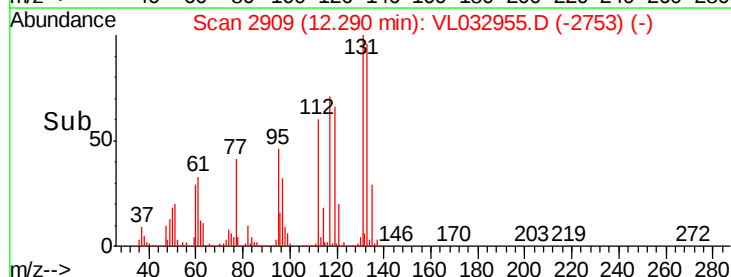
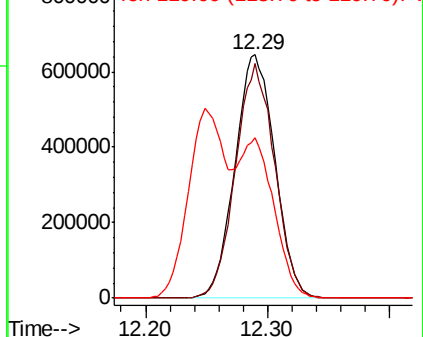
131 100

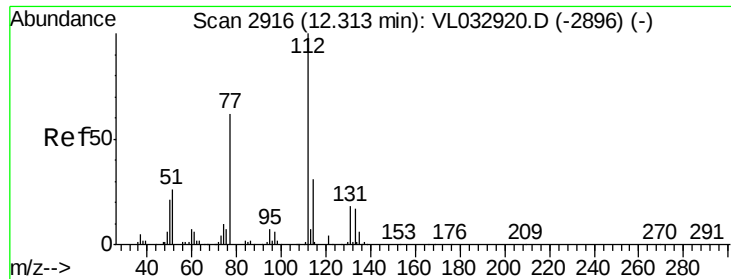
133 94.5 75.1 112.7

119 58.9 47.5 71.3



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 9.632 ppbv

RT: 12.31 min Scan# 2916

Delta R.T. 0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

Instrument :

MSVOA_L

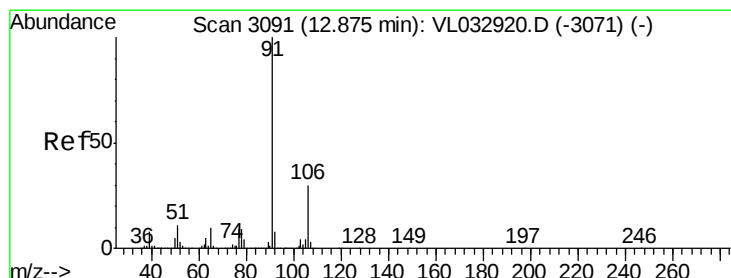
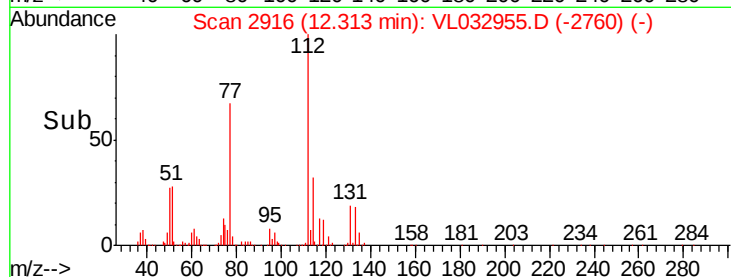
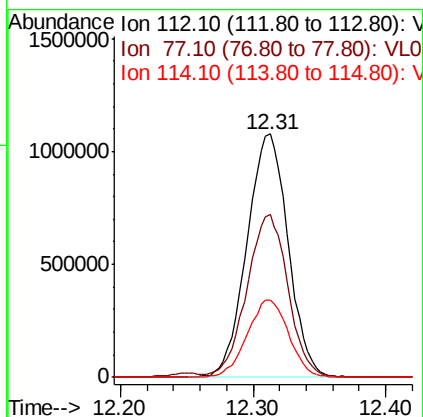
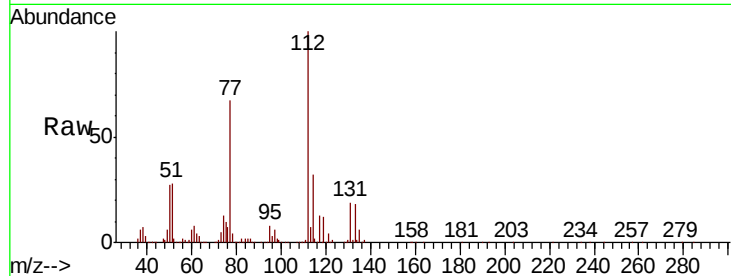
ClientSampleId :

VL1211ABS01

Tot Ion:	112	Resp:	2330760
Ion	Ratio	Lower	Upper
112	100		
77	66.7	51.1	76.7
114	31.5	28.4	34.7

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#58

Ethyl Benzene

Concen: 11.713 ppbv

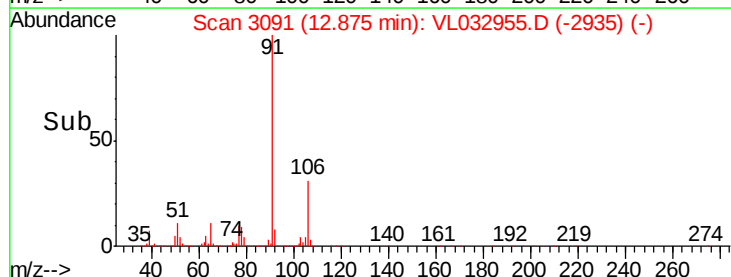
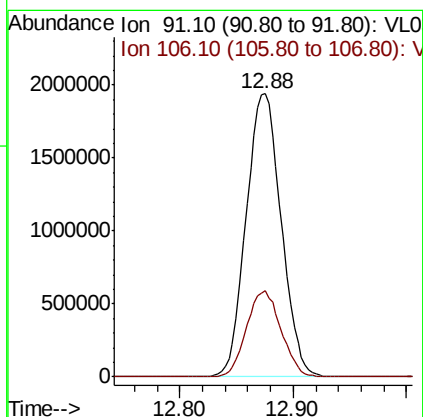
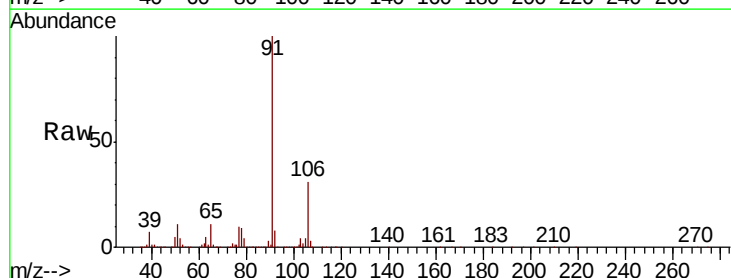
RT: 12.88 min Scan# 3091

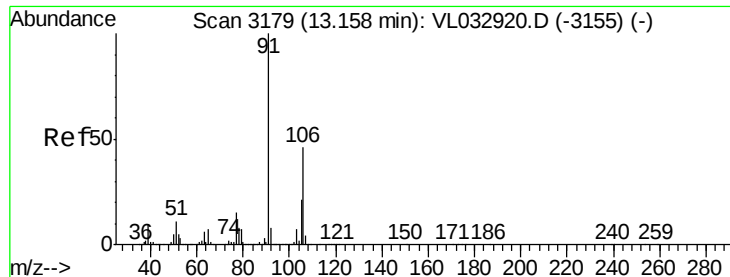
Delta R.T. 0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

Tgt Ion:	91	Resp:	4186645
Ion	Ratio	Lower	Upper
91	100		
106	30.7	23.9	35.9





#59

m/p-Xylene

Concen: 22.029 ppbv m

RT: 13.13 min Scan# 3171

Delta R.T. -0.03 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

Instrument :

MSVOA_L

ClientSampleId :

VL1211ABS01

Tot Ion: 91 Resp: 7138624

Ion Ratio Lower Upper

91 100

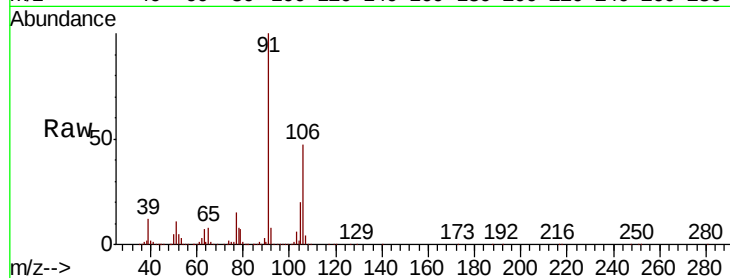
106 45.1 0.0 0.0#

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

2000000

1500000

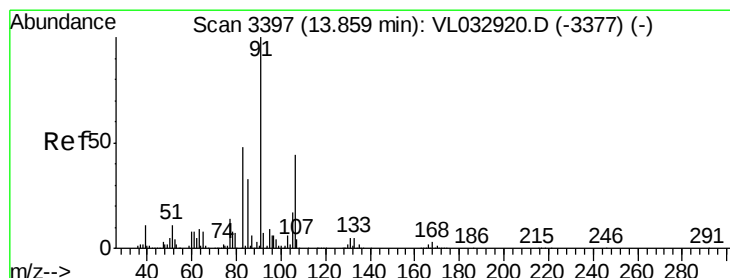
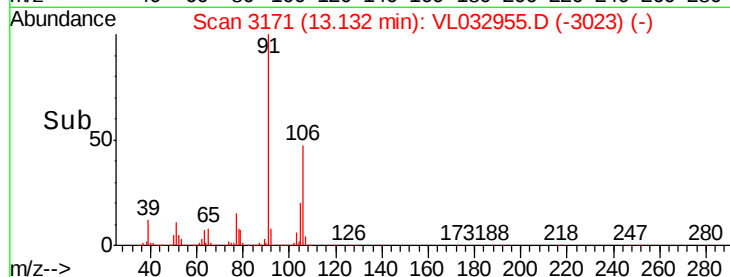
1000000

500000

0

13.10 13.13 13.20

Time-->



#60

o-Xylene

Concen: 11.380 ppbv

RT: 13.86 min Scan# 3397

Delta R.T. 0.00 min

Lab File: VL032955.D

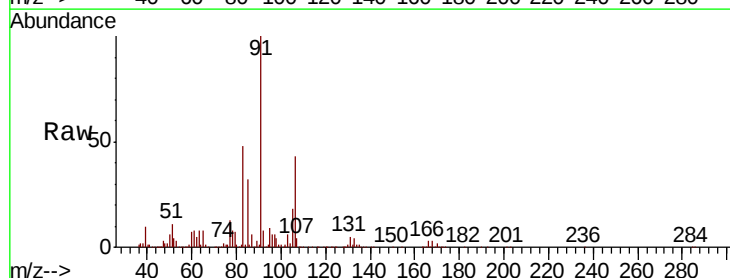
Acq: 11 Dec 2018 15:20

Tgt Ion: 91 Resp: 3724166

Ion Ratio Lower Upper

91 100

106 43.6 21.9 65.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

1500000

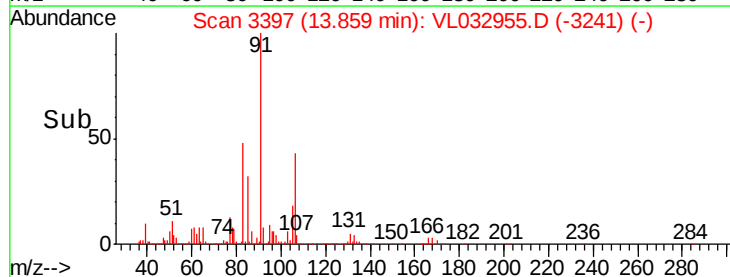
1000000

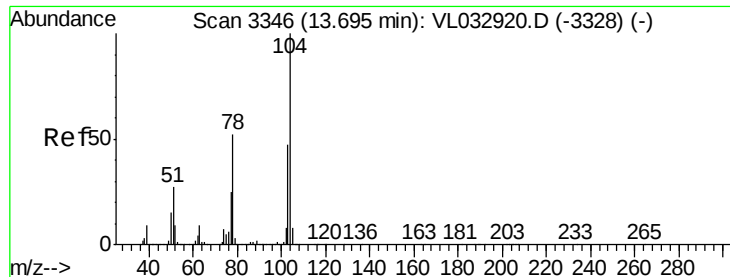
500000

0

13.80 13.86 13.90

Time-->





#61

Stvrene

Concen: 11.829 ppbv

RT: 13.70 min Scan# 3347

Delta R.T. 0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

Instrument :

MSVOA_L

ClientSampleId :

VL1211ABS01

Tot Ion:104 Resp: 2575082

Ion Ratio Lower Upper

104 100

78 52.8 42.0 63.0

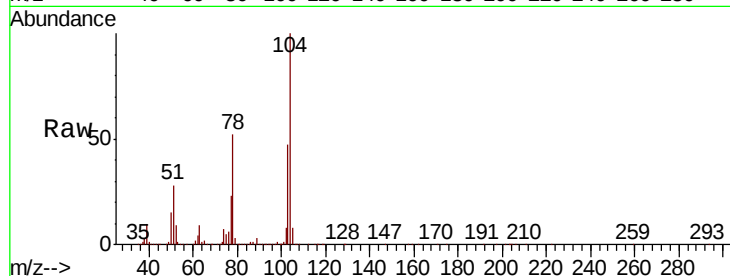
103 47.5 38.3 57.5

Manual Integrations

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MMDadoda

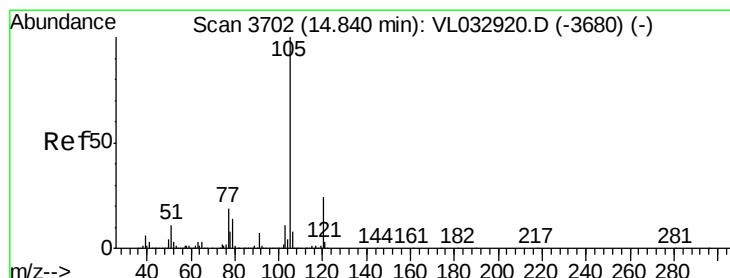
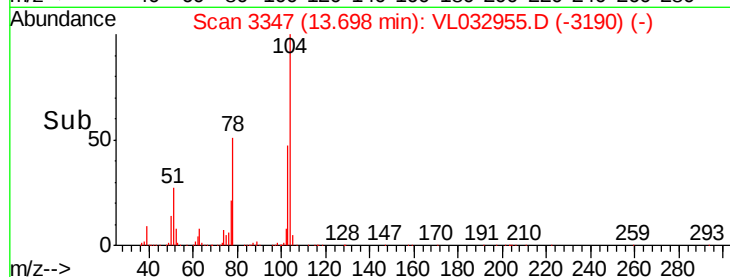
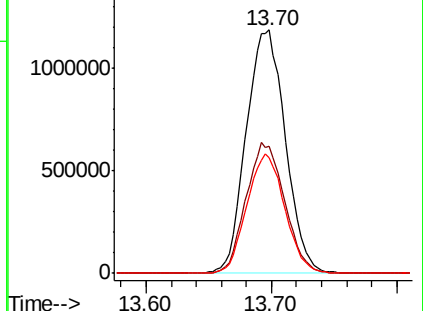
12/13/2018 7:58:37 AM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 11.688 ppbv

RT: 14.84 min Scan# 3701

Delta R.T. -0.00 min

Lab File: VL032955.D

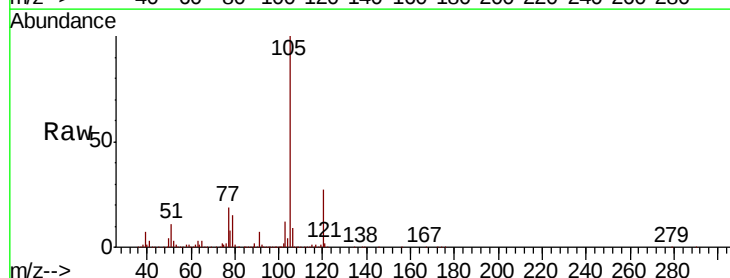
Acq: 11 Dec 2018 15:20

Tgt Ion:105 Resp: 5336233

Ion Ratio Lower Upper

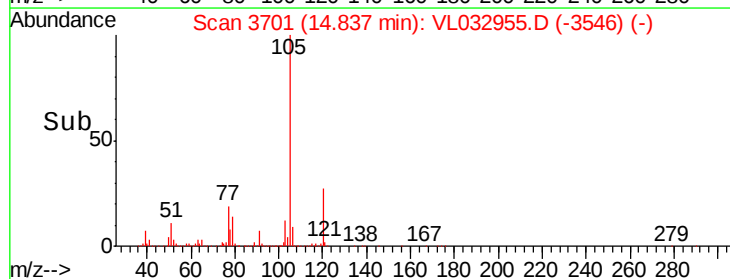
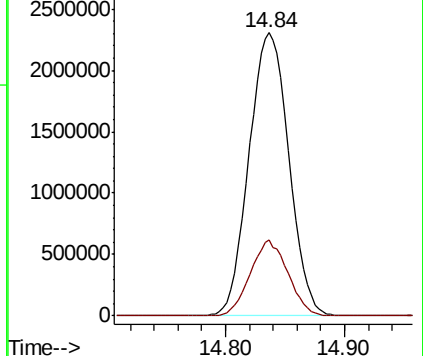
105 100

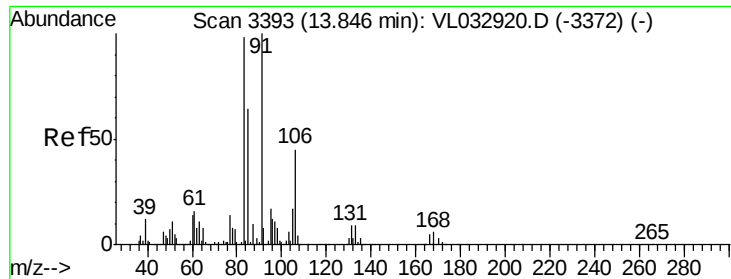
120 25.3 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





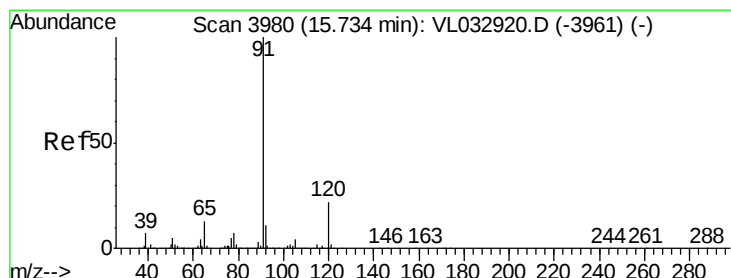
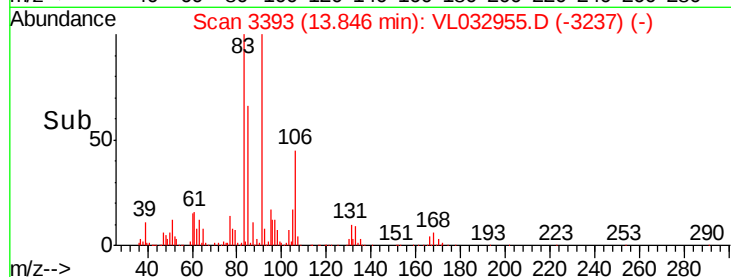
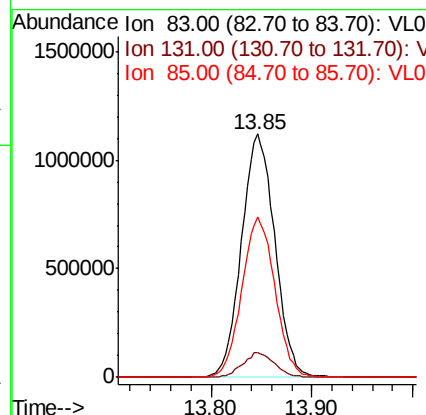
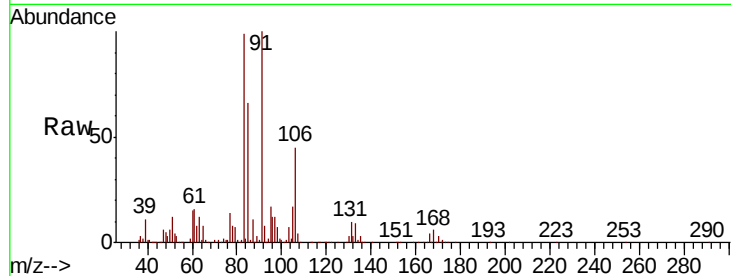
#63
 1,1,2,2-Tetrachloroethane
 Concen: 10.085 ppbv
 RT: 13.85 min Scan# 3393
 Delta R.T. 0.00 min
 Lab File: VL032955.D
 Acq: 11 Dec 2018 15:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1211ABS01

Tot Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.9	14.6
85	65.6	32.9	98.6

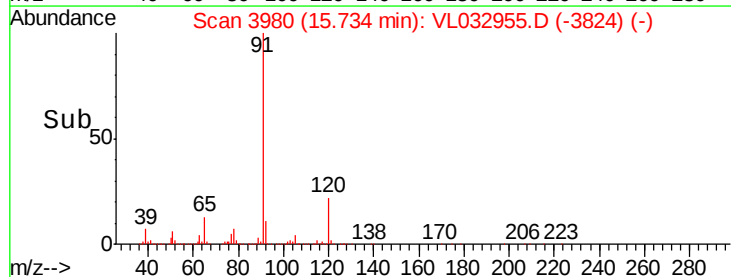
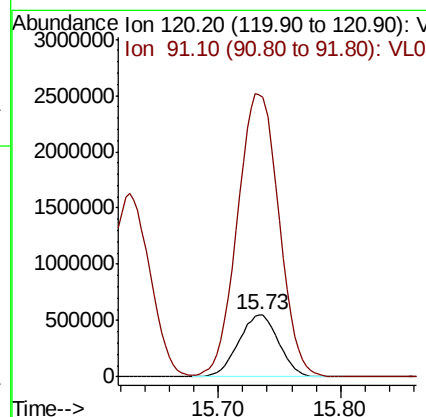
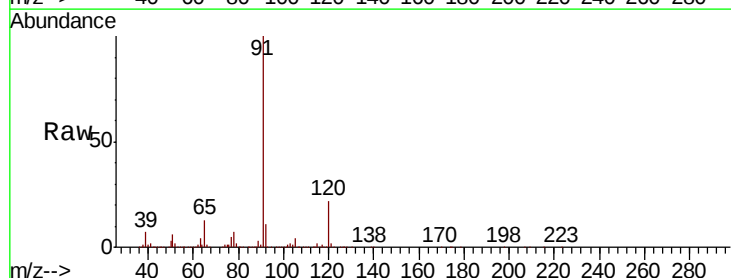
Manual Integrations
 APPROVED

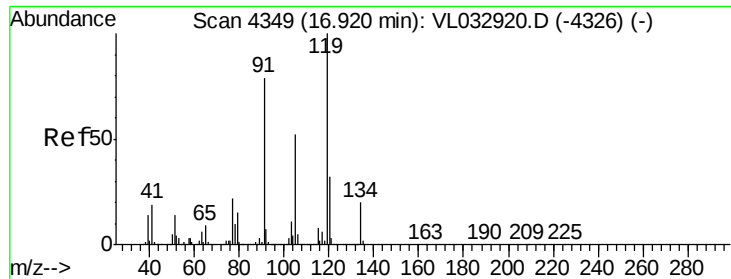
MMDadoda
 12/13/2018 7:58:37 AM



#64
 n-propylbenzene
 Concen: 10.540 ppbv
 RT: 15.73 min Scan# 3980
 Delta R.T. 0.00 min
 Lab File: VL032955.D
 Acq: 11 Dec 2018 15:20

Tgt Ion	Ratio	Lower	Upper
120	100		
91	474.7	380.4	570.6





#65

tert-Butylbenzene

Concen: 10.906 ppbv

RT: 16.92 min Scan# 4348

Delta R.T. -0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

Instrument :

MSVOA_L

ClientSampleId :

VL1211ABS01

Tot Ion:119 Resp: 4616436

Ion Ratio Lower Upper

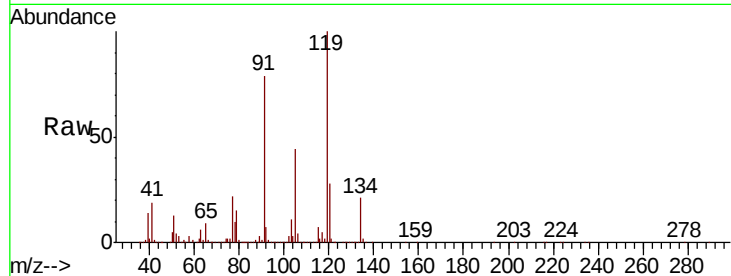
119 100

91 81.3 64.5 96.7

134 19.6 15.7 23.5

Manual Integrations
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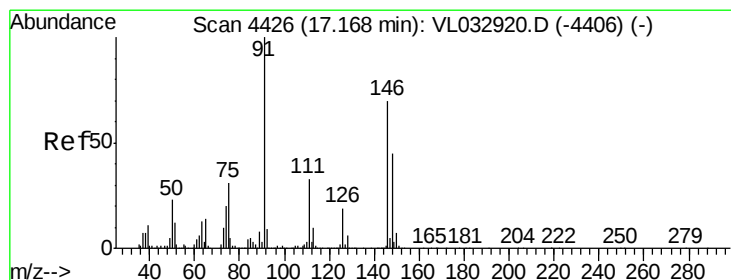
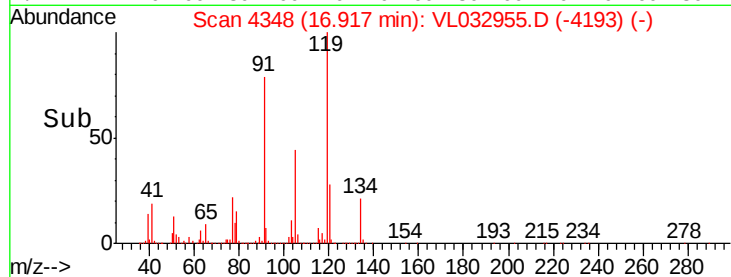
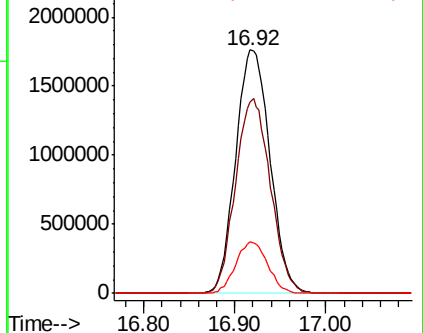
MMDadoda
12/13/2018 7:58:37 AM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 11.629 ppbv

RT: 17.17 min Scan# 4426

Delta R.T. 0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

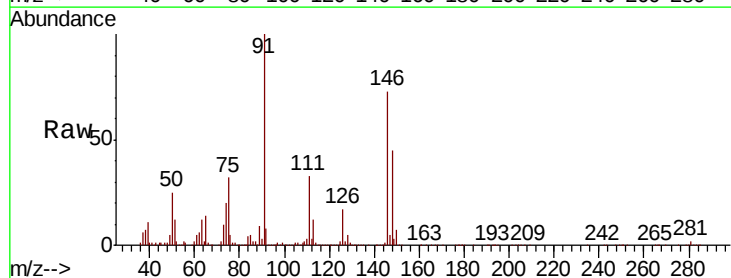
Tgt Ion: 91 Resp: 2728170

Ion Ratio Lower Upper

91 100

126 17.5 14.1 21.1

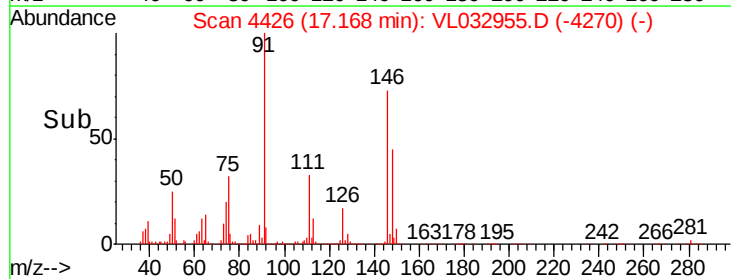
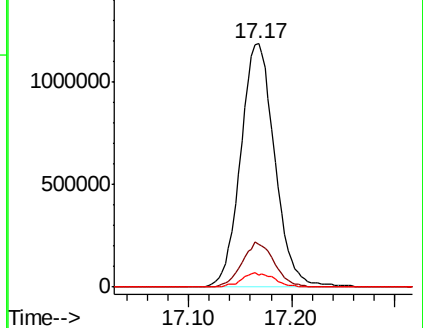
128 5.7 4.5 6.7

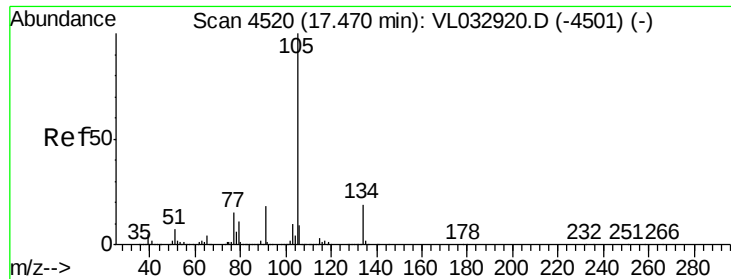


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





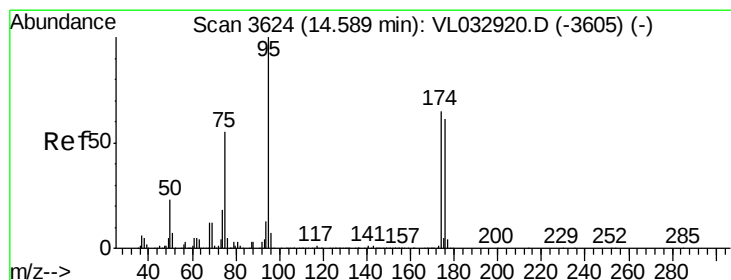
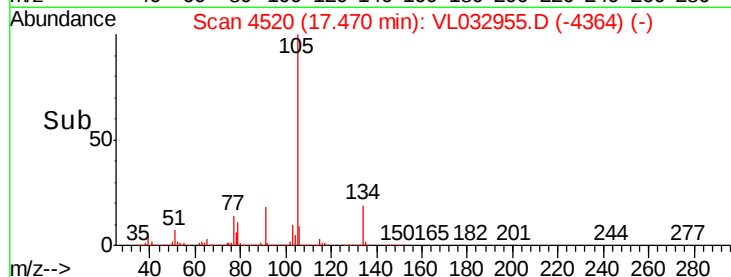
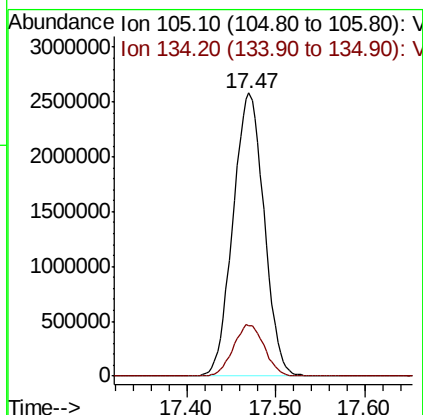
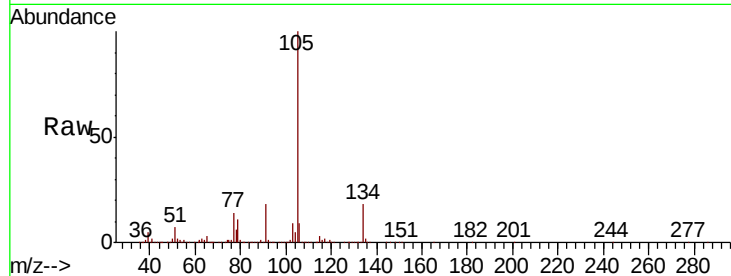
#67
 sec-Butylbenzene
 Concen: 9.968 ppbv
 RT: 17.47 min Scan# 4520
 Delta R.T. 0.00 min
 Lab File: VL032955.D
 Acq: 11 Dec 2018 15:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1211ABS01

Tot Ion: 105 Resp: 6220359
 Ion Ratio Lower Upper
 105 100
 134 18.2 14.6 21.8

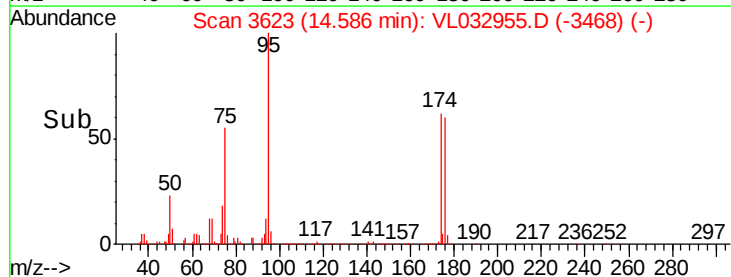
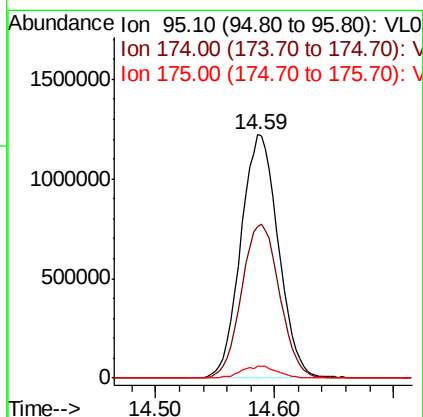
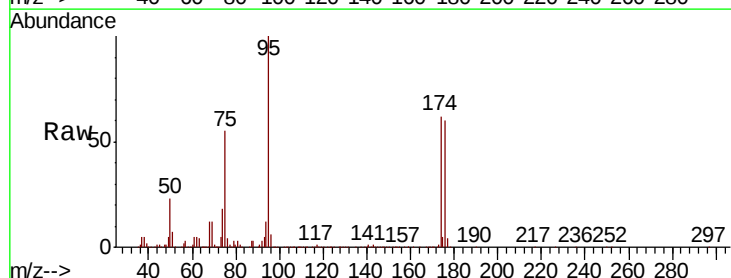
Manual Integrations
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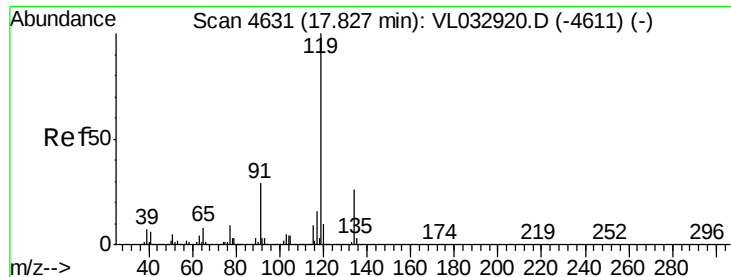
MMDadoda
 12/13/2018 7:58:37 AM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.782 ppbv
 RT: 14.59 min Scan# 3623
 Delta R.T. -0.00 min
 Lab File: VL032955.D
 Acq: 11 Dec 2018 15:20

Tgt Ion: 95 Resp: 2668831
 Ion Ratio Lower Upper
 95 100
 174 64.3 51.4 77.0
 175 4.8 3.8 5.6





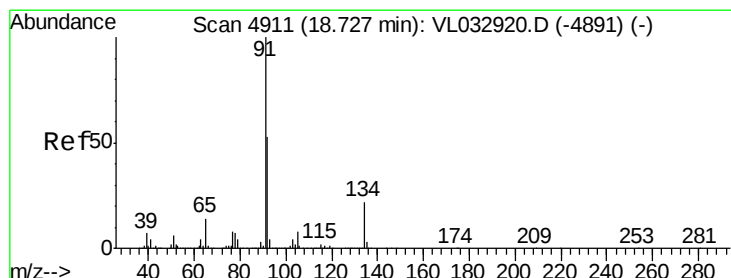
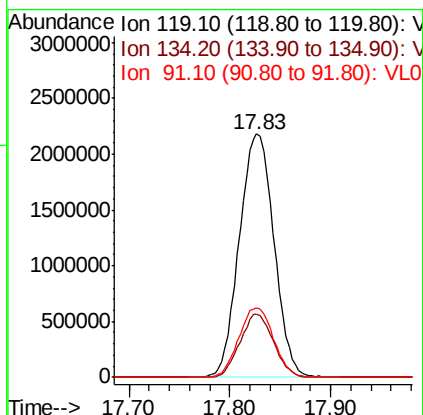
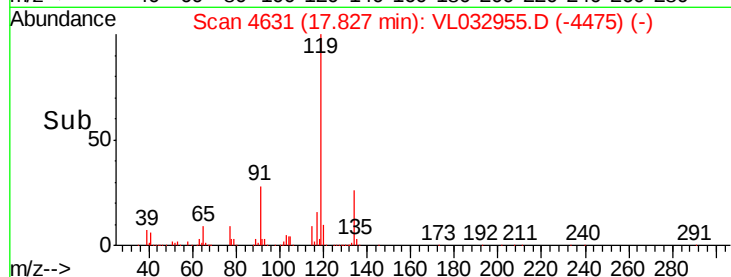
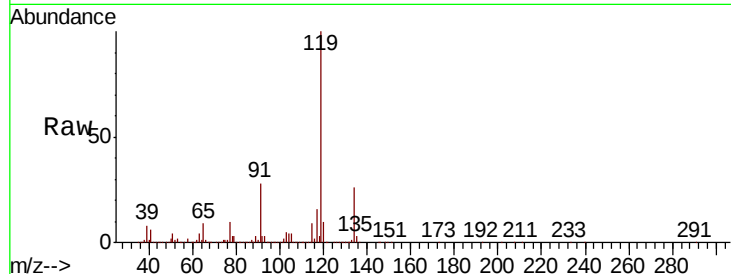
#69
 p-Isopropyltoluene
 Concen: 10.265 ppbv
 RT: 17.83 min Scan# 4631
 Delta R.T. 0.00 min
 Lab File: VL032955.D
 Acq: 11 Dec 2018 15:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1211ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.2	30.2
91	28.6	22.9	34.3

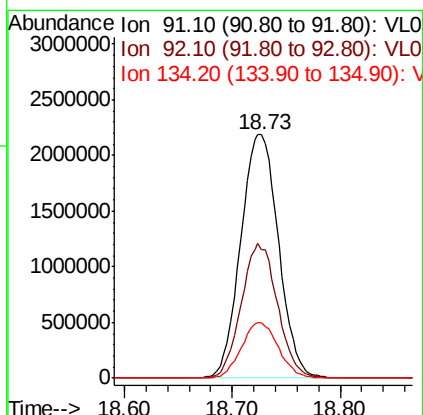
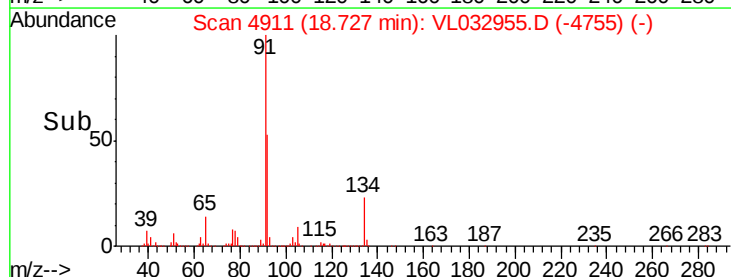
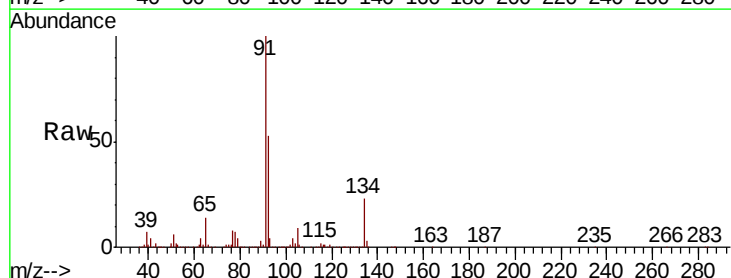
Manual Integrations
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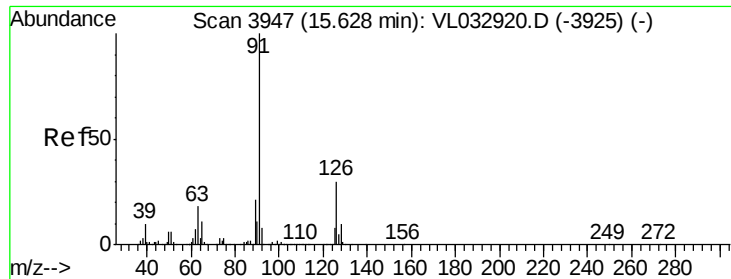
MMDadoda
 12/13/2018 7:58:37 AM



#70
 n-Butylbenzene
 Concen: 11.433 ppbv
 RT: 18.73 min Scan# 4911
 Delta R.T. 0.00 min
 Lab File: VL032955.D
 Acq: 11 Dec 2018 15:20

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.9	42.7	64.1
134	22.3	18.0	27.0





#71

2-Chlorotoluene

Concen: 10.718 ppbv

RT: 15.63 min Scan# 3947

Delta R.T. 0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

Instrument :

MSVOA_L

ClientSampleId :

VL1211ABS01

Tot Ion: 91 Resp: 3638997

Ion Ratio Lower Upper

91 100

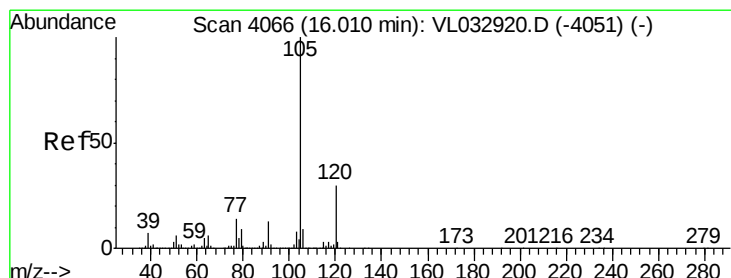
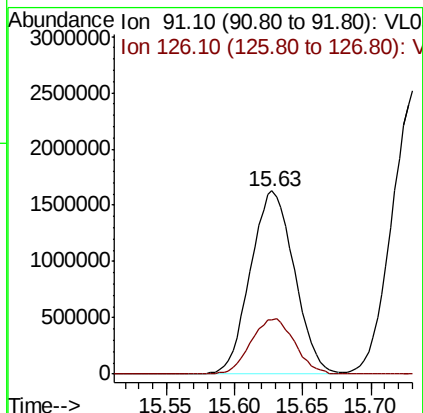
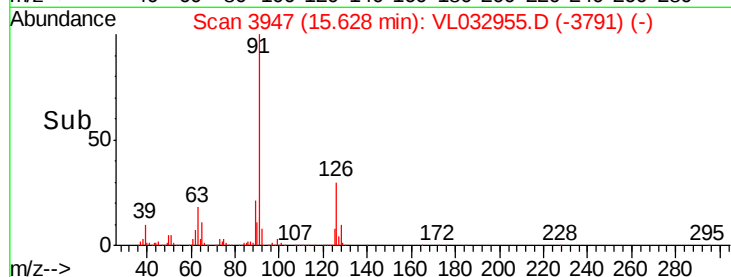
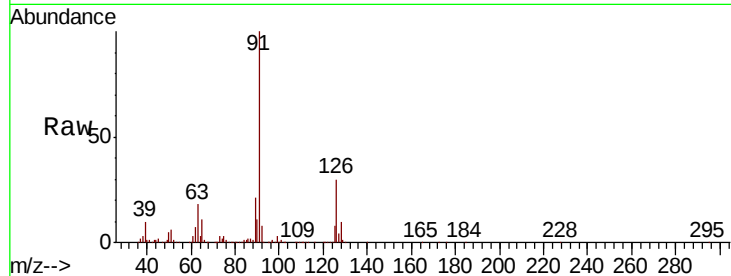
126 30.4 12.3 49.3

Manual Integrations

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MMDadoda

12/13/2018 7:58:37 AM



#72

4-Ethyltoluene

Concen: 11.012 ppbv

RT: 16.01 min Scan# 4066

Delta R.T. 0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

Tgt Ion: 105 Resp: 4023361

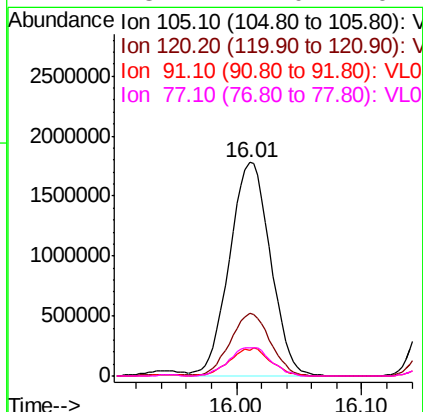
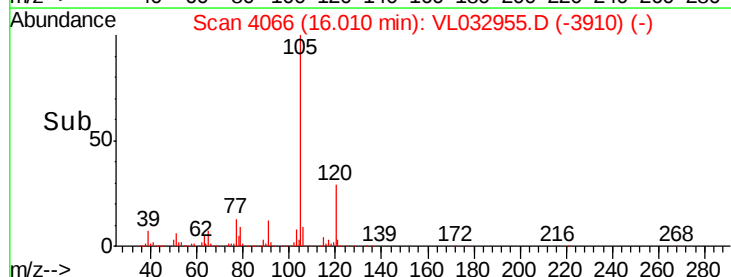
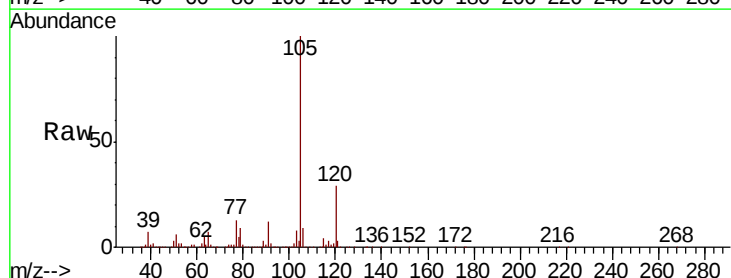
Ion Ratio Lower Upper

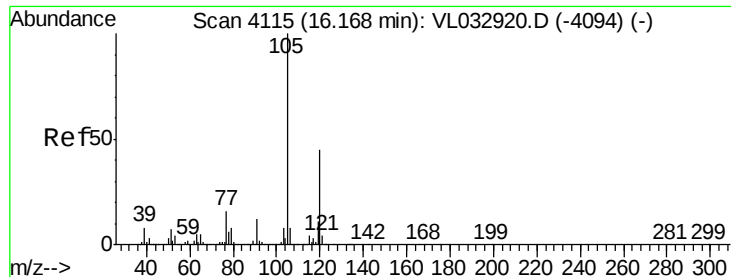
105 100

120 29.0 23.0 34.4

91 13.0 10.4 15.6

77 13.7 11.0 16.4





#73

1,3,5-Trimethylbenzene

Concen: 10.890 ppbv

RT: 16.17 min Scan# 4115

Delta R.T. 0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

Instrument :

MSVOA_L

ClientSampleId :

VL1211ABS01

Tot Ion:105 Resp: 3884241

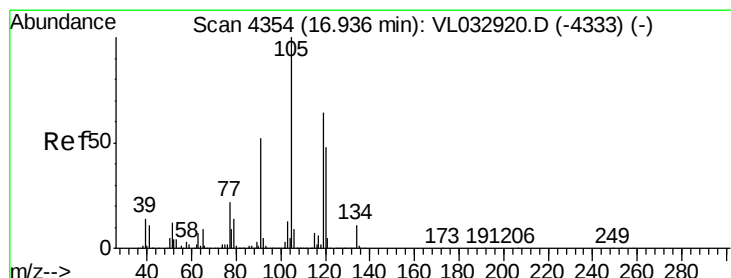
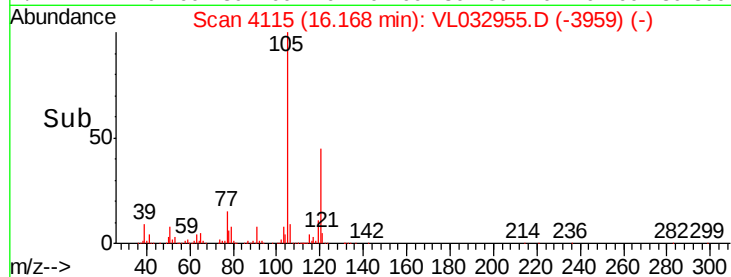
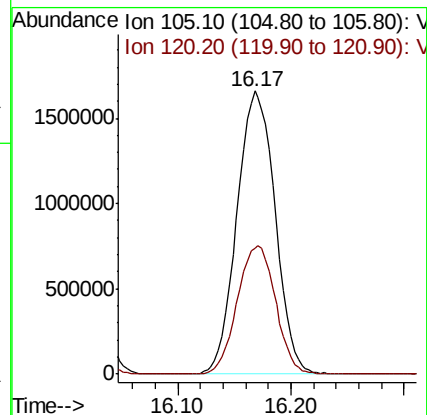
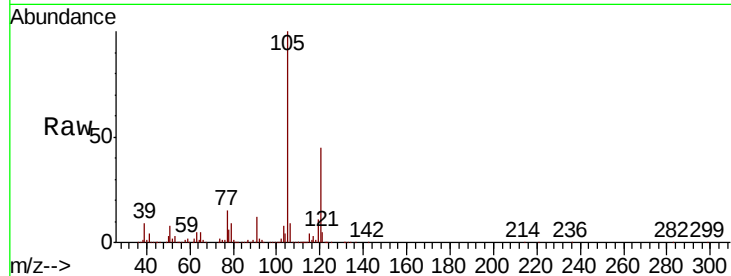
Ion Ratio Lower Upper

105 100

120 44.5 36.0 54.0

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#74

1,2,4-Trimethylbenzene

Concen: 10.444 ppbv

RT: 16.94 min Scan# 4354

Delta R.T. 0.00 min

Lab File: VL032955.D

Acq: 11 Dec 2018 15:20

Tgt Ion:105 Resp: 4206076

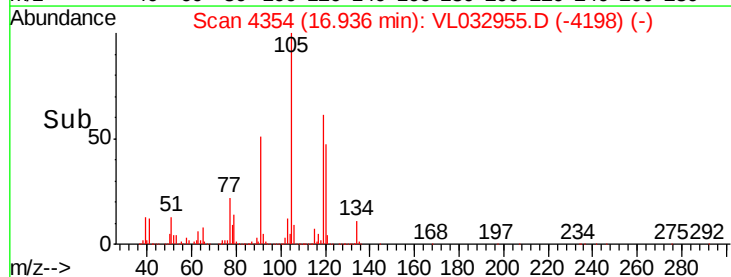
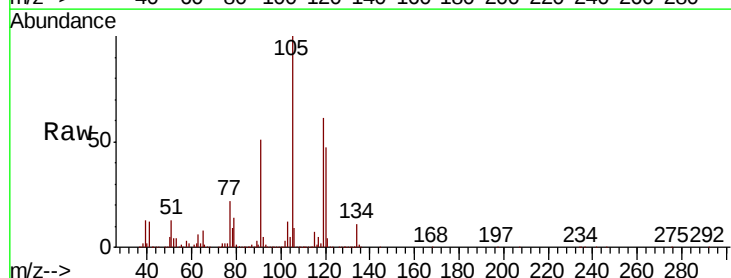
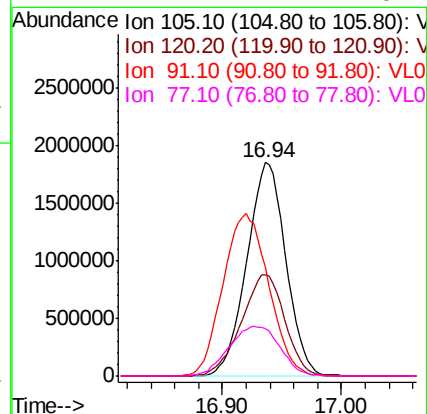
Ion Ratio Lower Upper

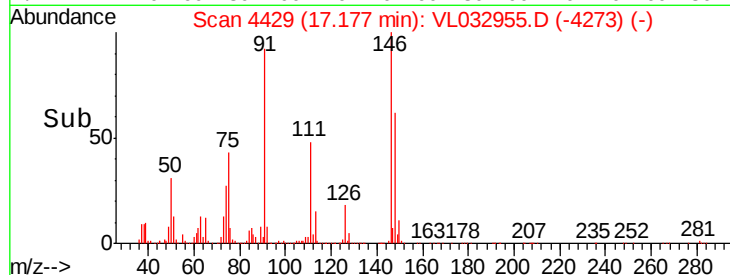
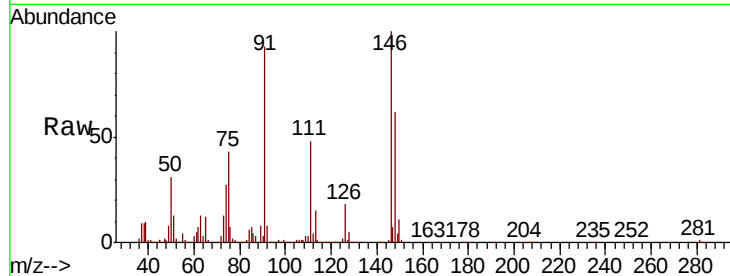
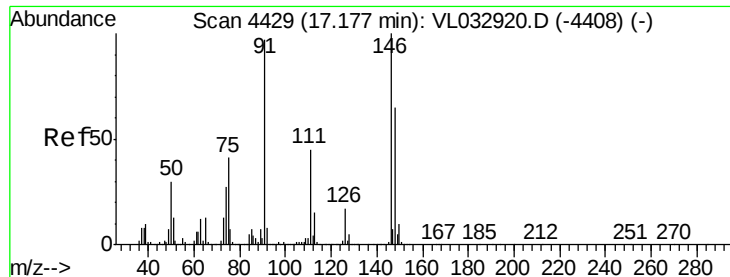
105 100

120 47.1 38.6 58.0

91 50.8 41.7 62.5

77 22.1 17.4 26.2





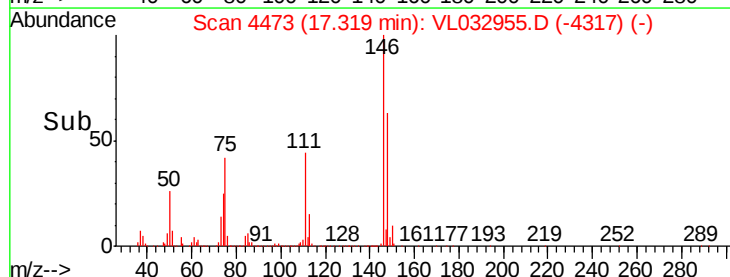
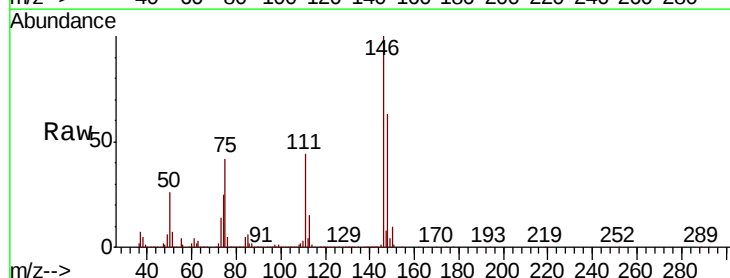
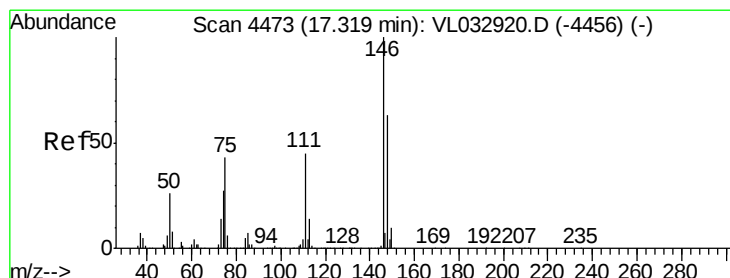
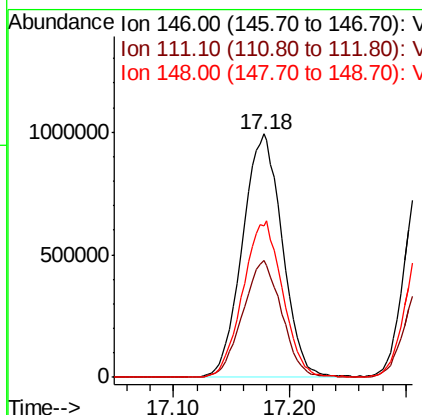
#75
 1,3-Dichlorobenzene
 Concen: 9.991 ppbv
 RT: 17.18 min Scan# 4429
 Delta R.T. 0.00 min
 Lab File: VL032955.D
 Acq: 11 Dec 2018 15:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1211ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.1	23.6	70.8
148	64.0	32.1	96.3

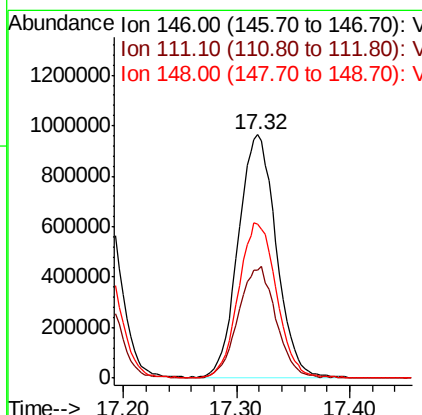
Manual Integrations
 APPROVED

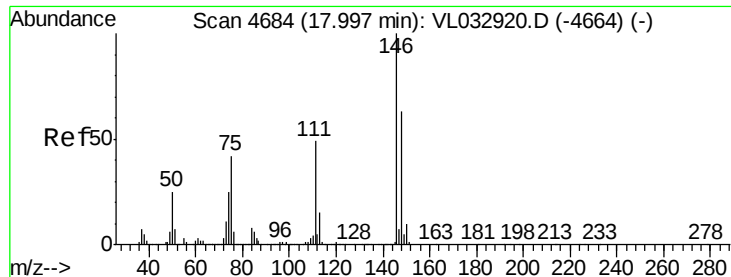
MMDadoda
 12/13/2018 7:58:37 AM



#76
 1,4-Dichlorobenzene
 Concen: 10.093 ppbv
 RT: 17.32 min Scan# 4473
 Delta R.T. 0.00 min
 Lab File: VL032955.D
 Acq: 11 Dec 2018 15:20

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.8	22.8	68.4
148	64.8	32.0	96.2





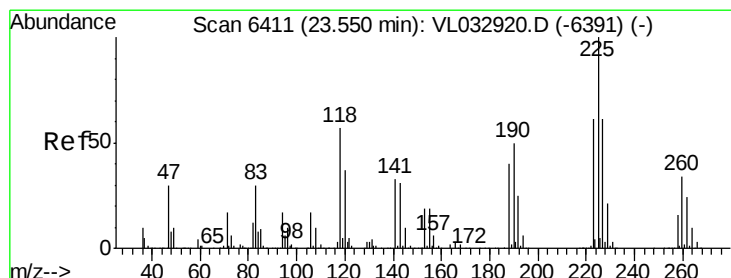
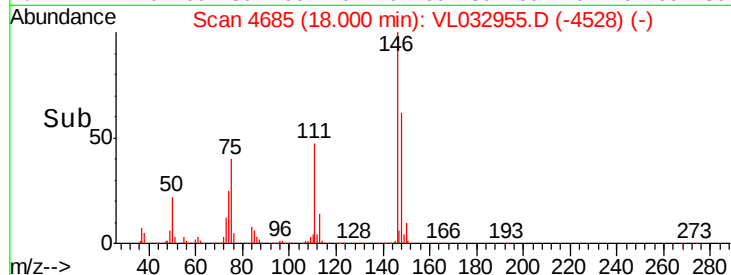
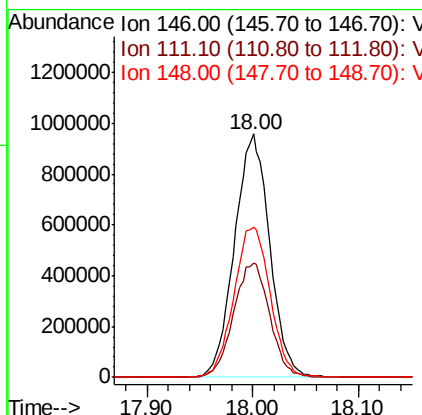
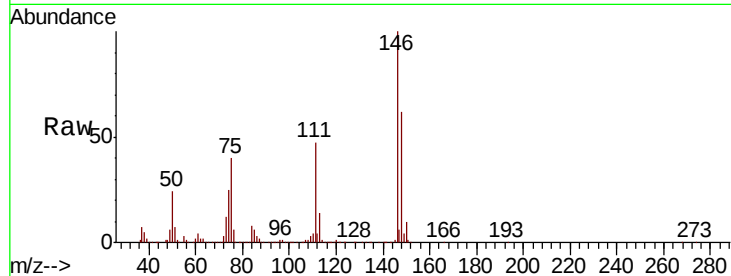
#77
 1,2-Dichlorobenzene
 Concen: 9.974 ppbv
 RT: 18.00 min Scan# 4685
 Delta R.T. 0.00 min
 Lab File: VL032955.D
 Acq: 11 Dec 2018 15:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1211ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.4	24.3	72.9
148	64.2	32.0	96.2

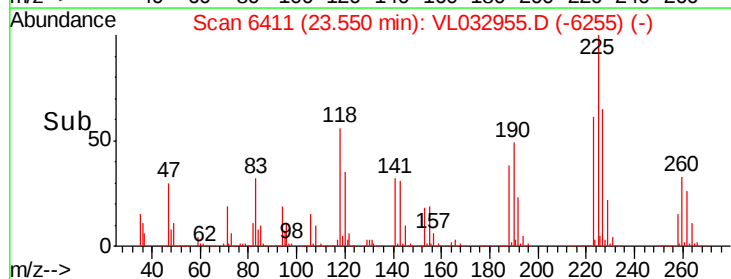
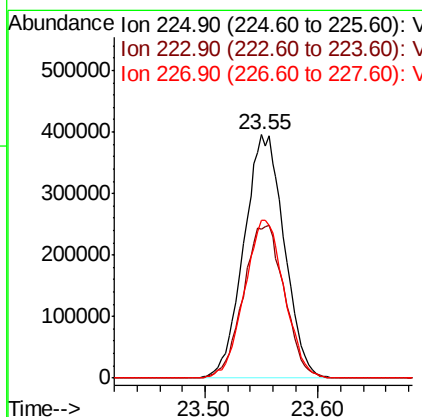
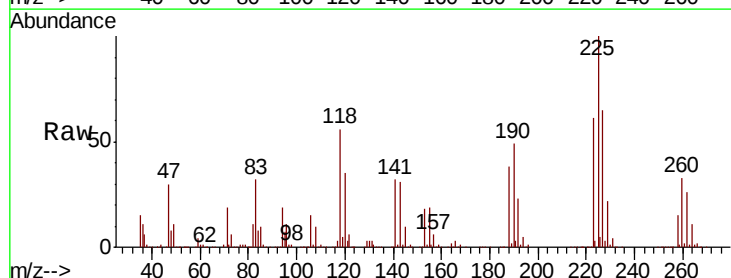
Manual Integrations
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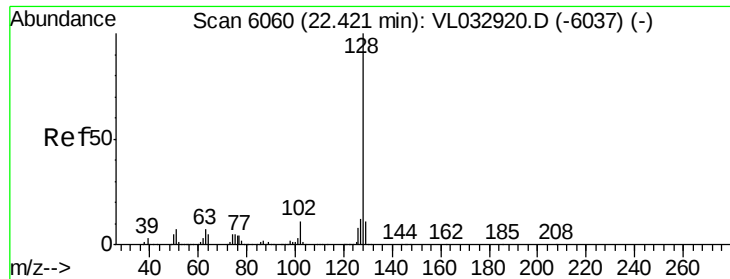
MMDadoda
 12/13/2018 7:58:37 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.036 ppbv
 RT: 23.55 min Scan# 6411
 Delta R.T. 0.00 min
 Lab File: VL032955.D
 Acq: 11 Dec 2018 15:20

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.9	50.6	75.8
227	64.3	50.4	75.6





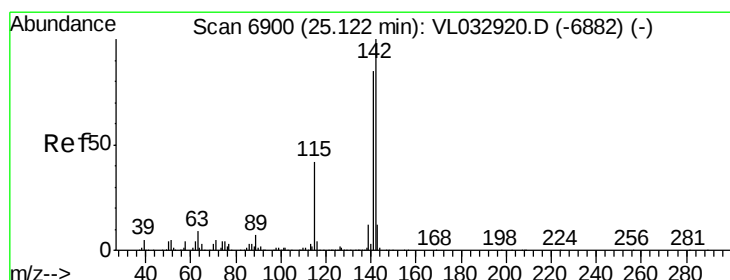
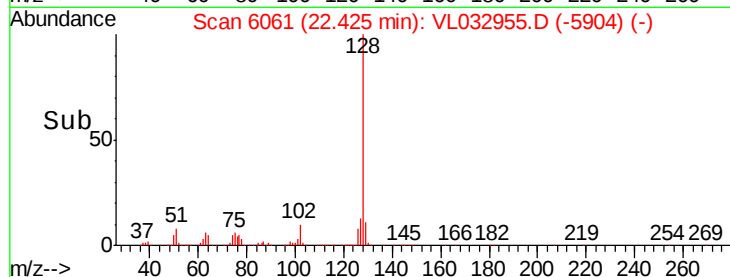
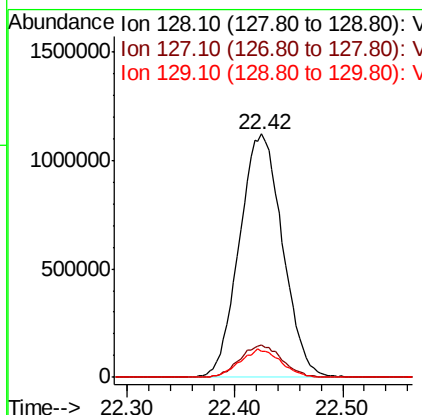
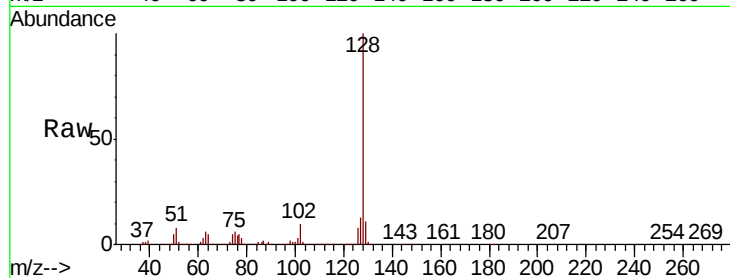
#79
Naphthalene
Concen: 11.898 ppbv
RT: 22.42 min Scan# 6061
Delta R.T. 0.00 min
Lab File: VL032955.D
Acq: 11 Dec 2018 15:20

Instrument :
MSVOA_L
ClientSampleId :
VL1211ABS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.4	9.9	14.9
129	10.8	8.6	13.0

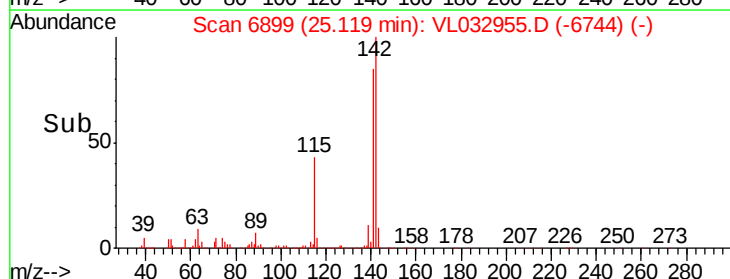
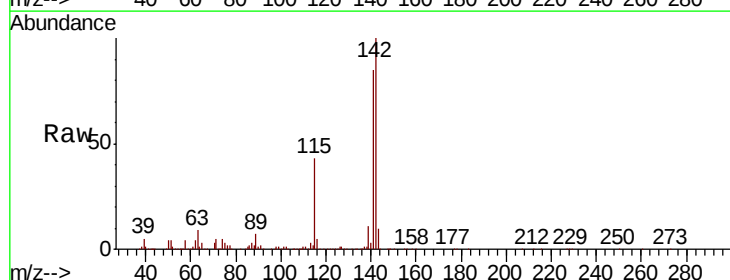
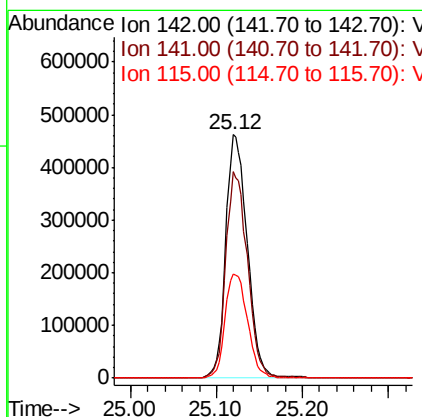
Manual Integrations
APPROVED

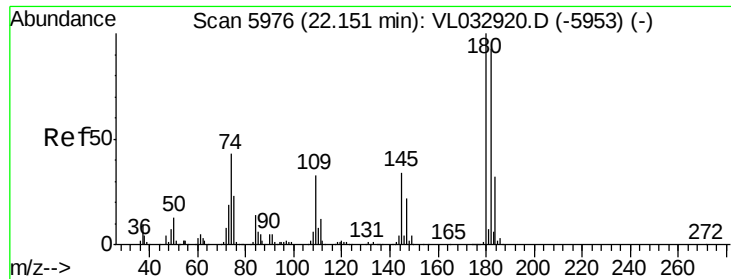
MMDadoda
12/13/2018 7:58:37 AM



#80
Naphthalene, 2-methyl-
Concen: 14.457 ppbv
RT: 25.12 min Scan# 6899
Delta R.T. -0.00 min
Lab File: VL032955.D
Acq: 11 Dec 2018 15:20

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.2	68.2	102.2
115	44.5	35.1	52.7





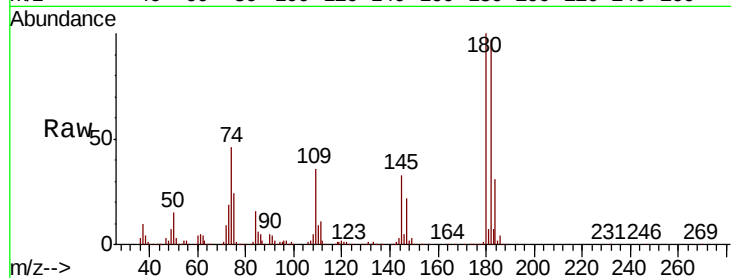
#81
 1,2,4-Trichlorobenzene
 Concen: 11.154 ppbv
 RT: 22.15 min Scan# 5975
 Delta R.T. -0.00 min
 Lab File: VL032955.D
 Acq: 11 Dec 2018 15:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1211ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	77.0	115.6
184	30.6	24.3	36.5

Manual Integrations
 APPROVED

MMDadoda
 12/13/2018 7:58:37 AM



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

