

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121118\
 Data File : VL032982.D
 Acq On : 12 Dec 2018 12:14
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 12/13/2018 7:58:59 AM

Quant Time: Dec 12 15:09:02 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 09:35:17 2018
 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	1361500	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3603328	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3479986m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2455091	9.55	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1189962	6.547	ppbv	98
3) Chlorodifluoromethane	3.01	51	1091977	10.590	ppbv	94
4) Chloromethane	3.17	50	692255	11.532	ppbv	97
5) Vinyl Chloride	3.29	62	677610	11.094	ppbv	100
6) Bromomethane	3.52	94	430548	11.270	ppbv	96
7) Chloroethane	3.60	64	252333	11.527	ppbv	96
8) Dichlorotetrafluoroethane	3.22	85	1672763	11.075	ppbv	97
9) Propene	3.04	41	544407	13.353	ppbv	96
10) Heptane	8.25	43	1980226	12.930	ppbv	99
11) Trichlorofluoromethane	4.01	101	1672414	9.766	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1368076	9.364	ppbv	99
13) Ethanol	3.65	45	133116	9.483	ppbv	94
14) Bromoethene	3.79	108	537231	11.075	ppbv	98
15) Acetone	3.90	43	1168500	9.999	ppbv	97
16) 1,3-Butadiene	3.36	39	580884	12.529	ppbv	99
17) tert-Butyl alcohol	4.36	59	400436	13.459	ppbv #	82
18) 1,1-Dichloroethene	4.35	96	647072	11.309	ppbv	97
19) Isopropyl Alcohol	4.03	45	936326	12.758	ppbv #	99
20) Methylene Chloride	4.41	84	584396	10.232	ppbv	98
21) Allyl Chloride	4.48	41	1048383	11.008	ppbv	96
22) trans-1,2-Dichloroethene	4.97	96	650689	9.163	ppbv	99
23) Vinyl Acetate	5.16	43	2638367	13.334	ppbv	98
24) 1,1-Dichloroethane	5.09	63	1882041	10.939	ppbv	100
25) Ethyl Acetate	5.77	43	3049532	11.047	ppbv	99
26) Hexane	5.78	57	1394331	10.940	ppbv	97
27) Carbon Disulfide	4.62	76	1587748	9.964	ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	2430289	12.696	ppbv	99
29) Chloroform	5.86	83	2191572	9.637	ppbv	94
30) Cyclohexane	7.25	84	1233579	11.678	ppbv	98
31) cis-1,2-Dichloroethene	5.65	61	1360755	11.635	ppbv	95
32) 1,1,1-Trichloroethane	6.63	97	2310497	9.602	ppbv	98
34) 2-Butanone	5.33	43	1756827	11.193	ppbv	100
35) Carbon Tetrachloride	7.14	117	2396922	8.463	ppbv	99
36) Benzene	7.01	78	2974917	11.225	ppbv	97
37) 1,2-Dichloroethane	6.42	62	1654981	9.172	ppbv	97
38) Trichloroethene	7.97	130	1228347	11.137	ppbv	98
39) 1,2-Dichloropropane	7.74	63	1137550	11.317	ppbv	90
40) 1,4-Dioxane	7.96	88	379393	10.247	ppbv #	1
41) Tetrahydrofuran	6.15	42	1232268	12.624	ppbv	98
42) Bromodichloromethane	7.92	83	2445218	9.781	ppbv	98
43) Methyl Methacrylate	8.15	69	1222748	12.451	ppbv	100

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 VSTDCCC010EC

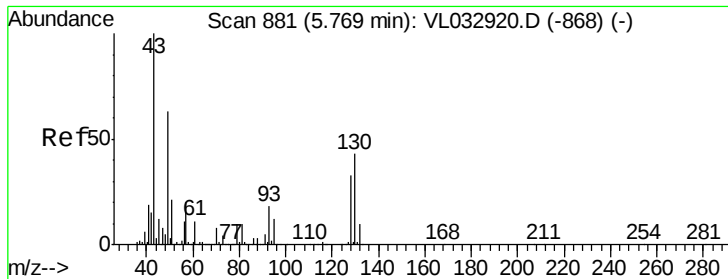
Manual Integrations
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 12/13/2018 7:58:59 AM

Quant Time: Dec 12 15:09:02 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	5013482	11.144	ppbv	98
45) t-1,3-Dichloropropene	9.42	75	1600804	13.294	ppbv	98
46) cis-1,3-Dichloropropene	8.84	75	1866121	12.662	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	1238845	11.198	ppbv	98
48) Dibromochloromethane	10.46	129	2210411	10.650	ppbv	100
49) Bromoform	13.21	173	1824692	10.689	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	2921206	11.639	ppbv	100
51) 2-Hexanone	10.28	43	2221673	13.052	ppbv #	97
52) Tetrachloroethene	11.38	164	1069338	11.092	ppbv	97
53) Toluene	9.96	91	3470695	12.347	ppbv	98
54) 1,2-Dibromoethane	10.77	107	1930883	11.172	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.29	131	1554091	10.017	ppbv	98
57) Chlorobenzene	12.31	112	2668640	10.618	ppbv	99
58) Ethyl Benzene	12.87	91	4648103	12.521	ppbv	98
59) m/p-Xylene	13.16	91	7701594m	22.883	ppbv	
60) o-Xylene	13.86	91	3921049	11.536	ppbv	98
61) Styrene	13.69	104	2905053	12.849	ppbv	98
62) Isopropylbenzene	14.84	105	5697330	12.014	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.85	83	2677154	10.144	ppbv	99
64) n-propylbenzene	15.73	120	1389635	11.282	ppbv	95
65) tert-Butylbenzene	16.92	119	4628881	10.529	ppbv	98
66) Benzyl Chloride	17.16	91	2768221	11.361	ppbv	98
67) sec-Butylbenzene	17.47	105	6592346	10.171	ppbv	100
69) p-Isopropyltoluene	17.83	119	5466740	10.407	ppbv	99
70) n-Butylbenzene	18.72	91	5455960	11.290	ppbv	99
71) 2-Chlorotoluene	15.62	91	3982436	11.293	ppbv	99
72) 4-Ethyltoluene	16.01	105	4404746	11.608	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	4139408	11.174	ppbv	98
74) 1,2,4-Trimethylbenzene	16.94	105	4178053	9.988	ppbv	95
75) 1,3-Dichlorobenzene	17.17	146	2347201	9.529	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2350054	10.224	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	2302780	10.011	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1092661	8.637	ppbv	99
79) Naphthalene	22.42	128	3816396	14.130	ppbv	98
80) Naphthalene, 2-methyl-	25.12	142	1405126	24.349	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1763444	12.311	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1361500

Ion Ratio Lower Upper

49 100

128 51.5 26.3 78.8

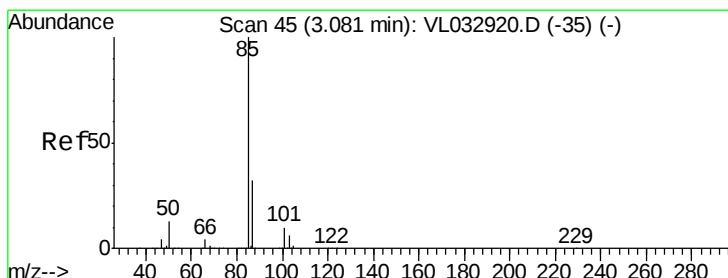
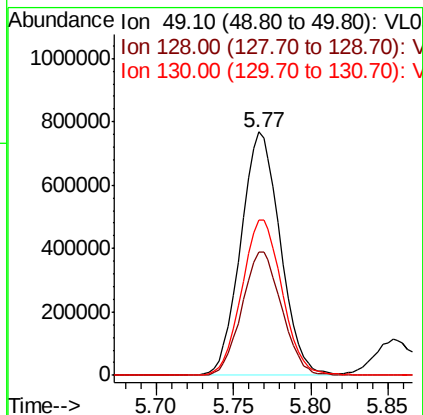
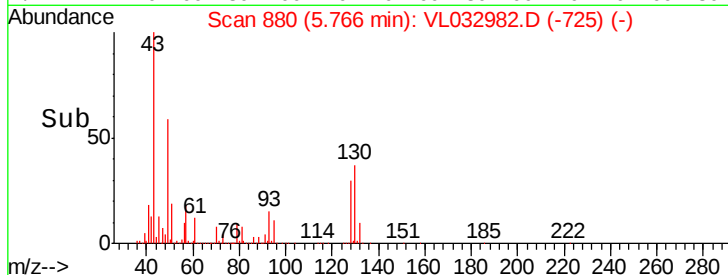
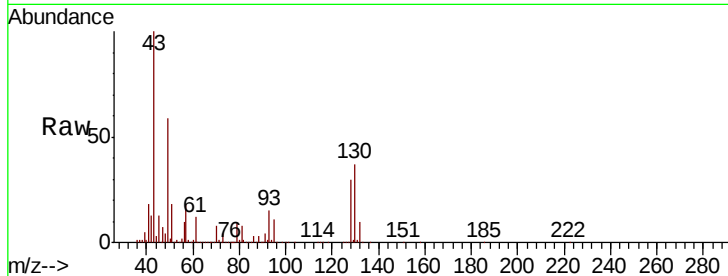
130 65.5 33.9 101.7

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#2

Dichlorodifluoromethane

Concen: 6.547 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.00 min

Lab File: VL032982.D

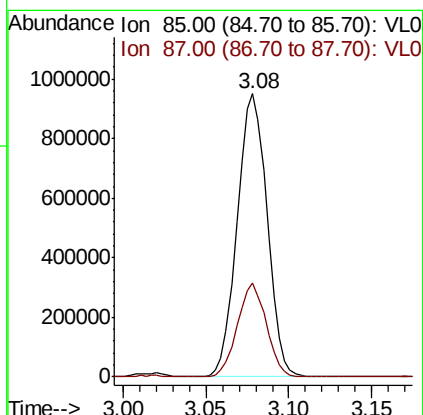
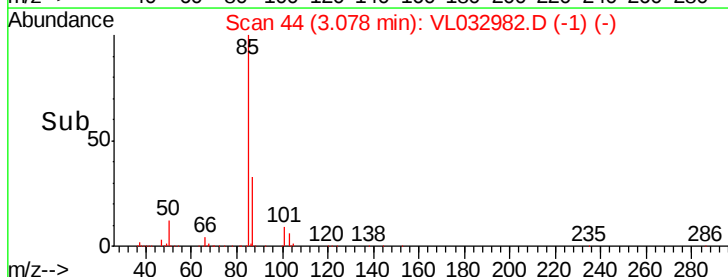
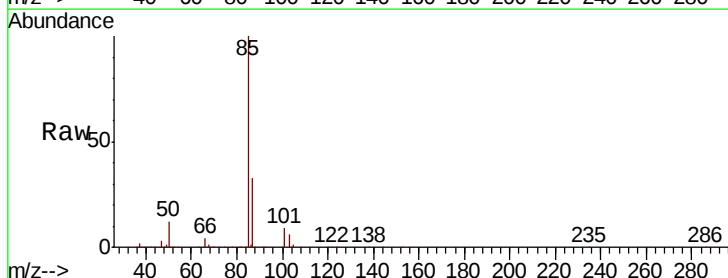
Acq: 12 Dec 2018 12:14

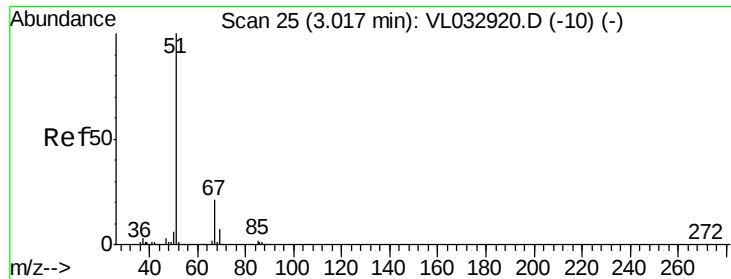
Tgt Ion: 85 Resp: 1189962

Ion Ratio Lower Upper

85 100

87 33.0 25.7 38.5





#3

Chlorodifluoromethane

Concen: 10.590 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 1091977

Ion Ratio Lower Upper

51 100

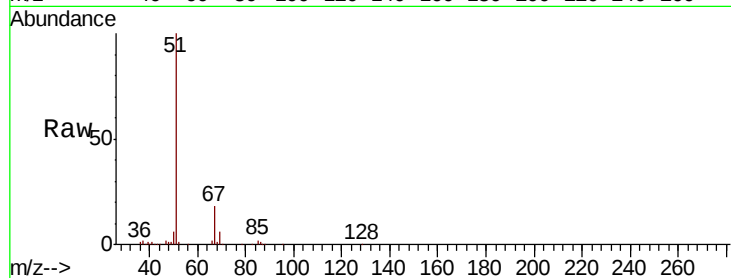
67 18.3 16.8 25.2

Manual Integrations

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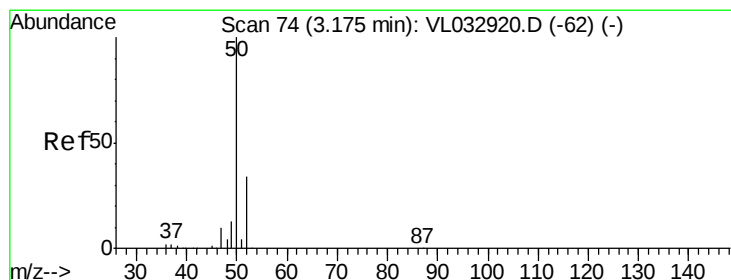
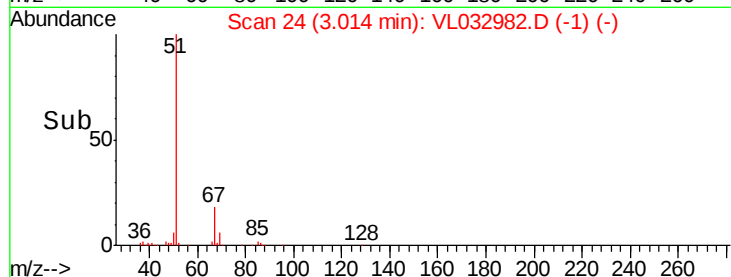
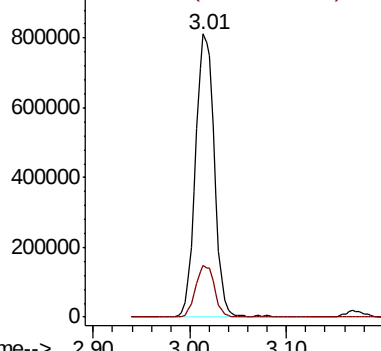
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 11.532 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL032982.D

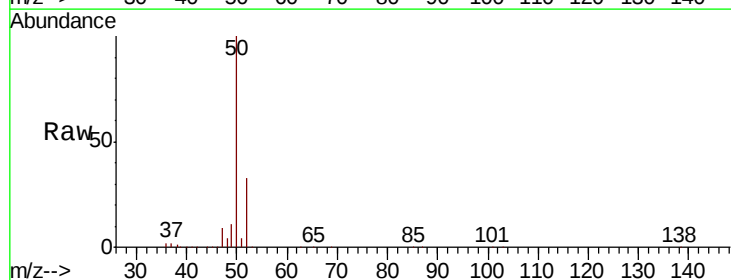
Acq: 12 Dec 2018 12:14

Tgt Ion: 50 Resp: 692255

Ion Ratio Lower Upper

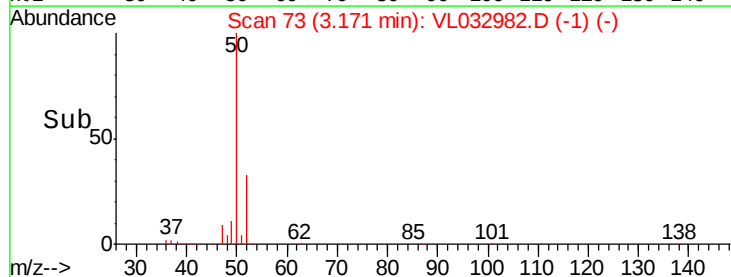
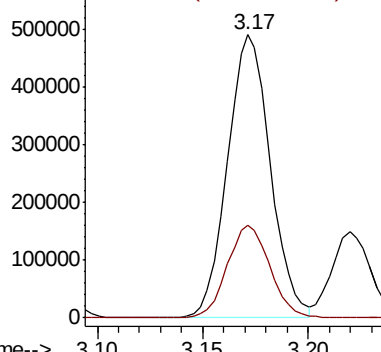
50 100

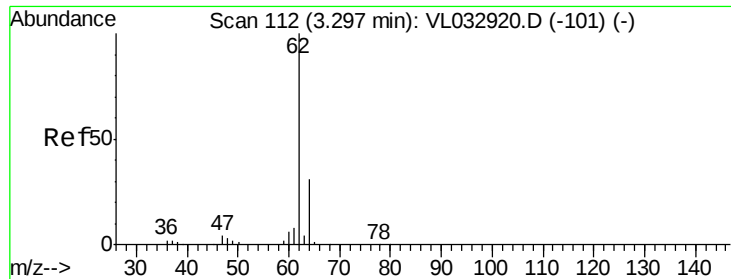
52 32.6 27.3 40.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 11.094 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.01 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 677610

Ion Ratio Lower Upper

62 100

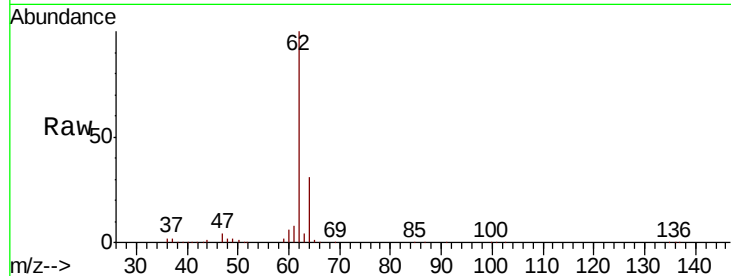
64 30.7 24.8 37.2

Manual Integrations

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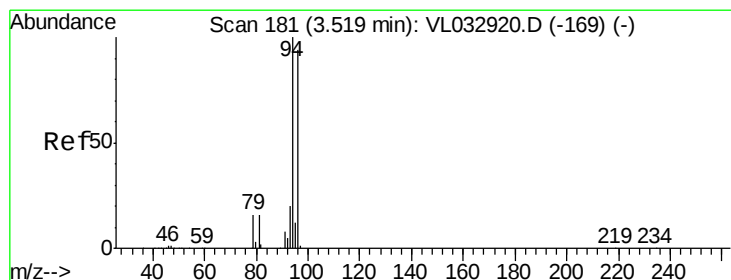
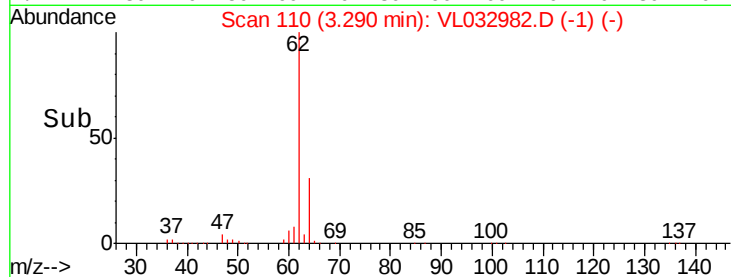
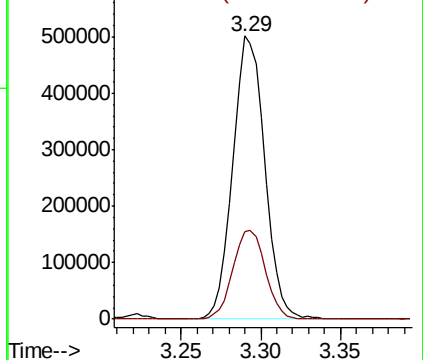
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 11.270 ppbv

RT: 3.52 min Scan# 180

Delta R.T. -0.00 min

Lab File: VL032982.D

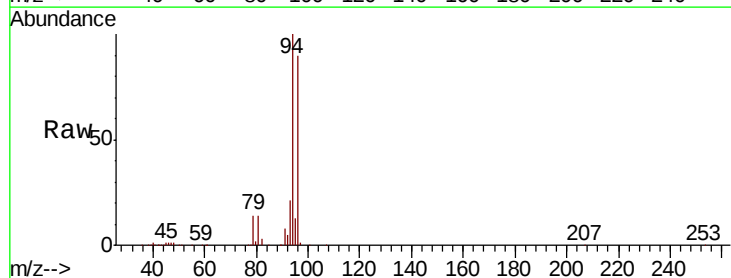
Acq: 12 Dec 2018 12:14

Tgt Ion: 94 Resp: 430548

Ion Ratio Lower Upper

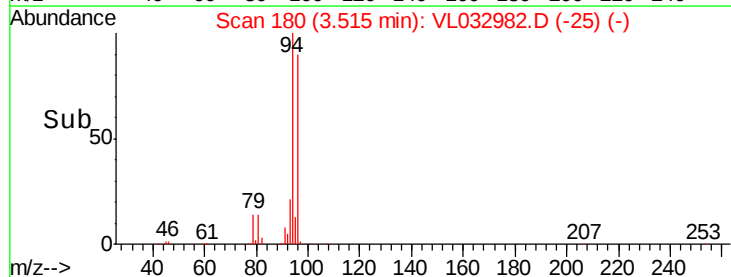
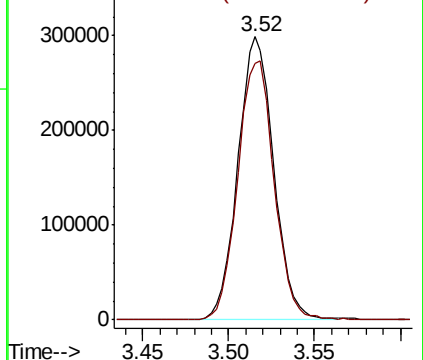
94 100

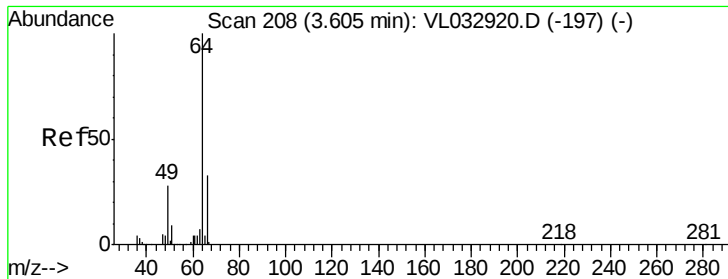
96 90.4 75.5 113.3



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 11.527 ppbv

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 252333

Ion Ratio Lower Upper

64 100

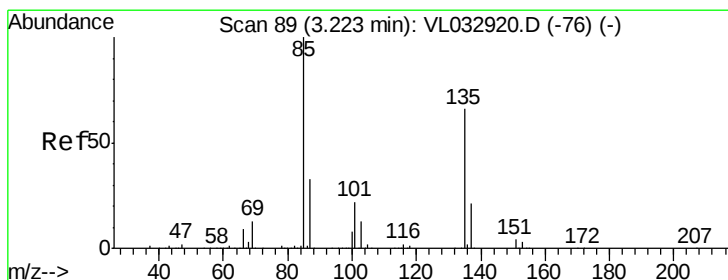
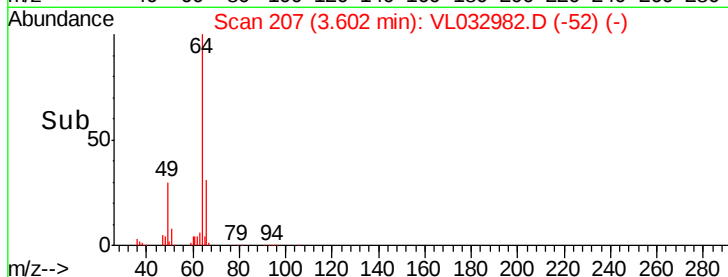
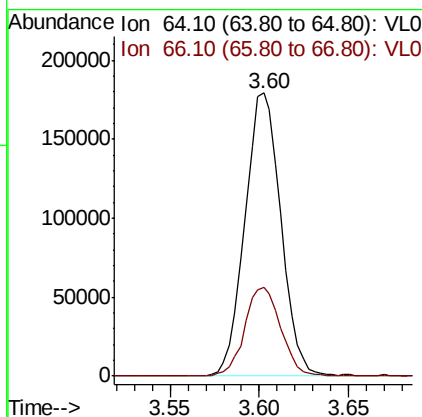
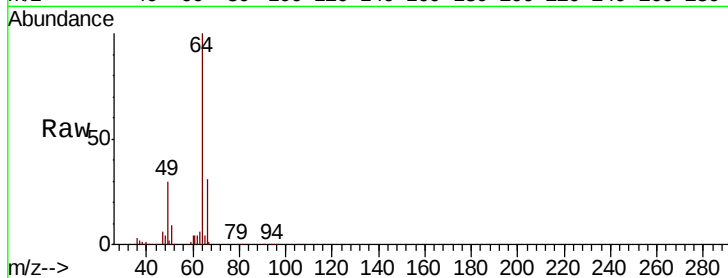
66 31.3 26.6 40.0

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#8

Dichlorotetrafluoroethane

Concen: 11.075 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL032982.D

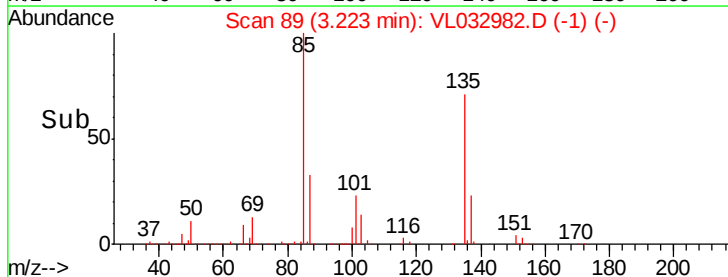
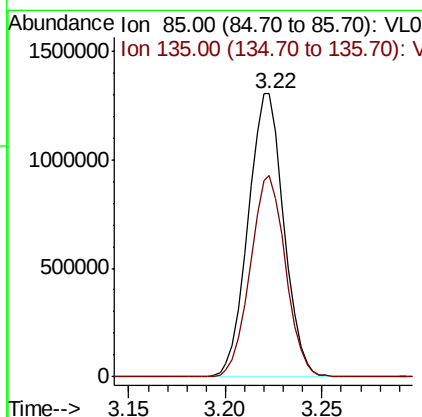
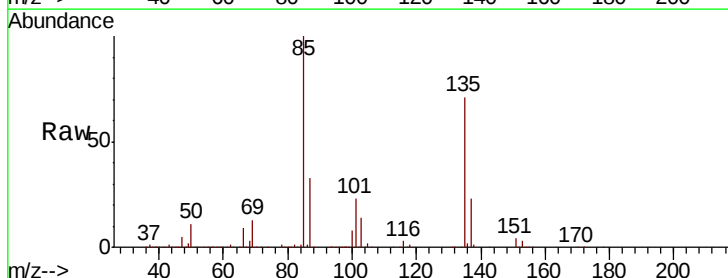
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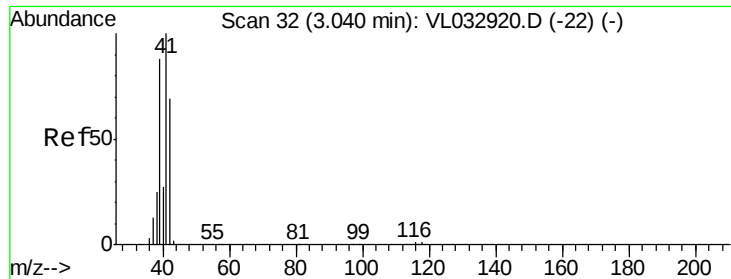
Tgt Ion: 85 Resp: 1672763

Ion Ratio Lower Upper

85 100

135 70.6 54.5 81.7





#9

Propene

Concen: 13.353 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 544407

Ion Ratio Lower Upper

41 100

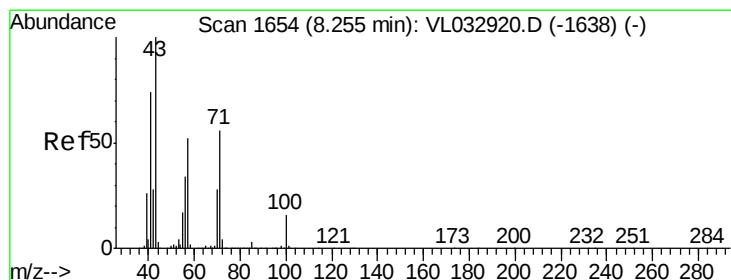
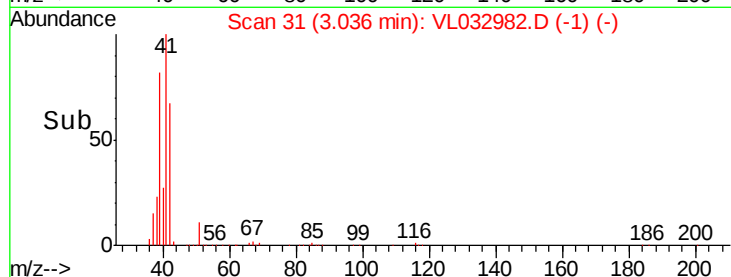
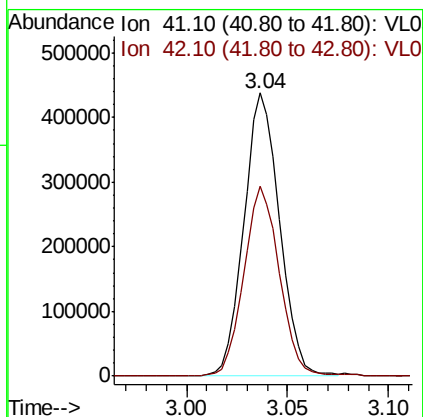
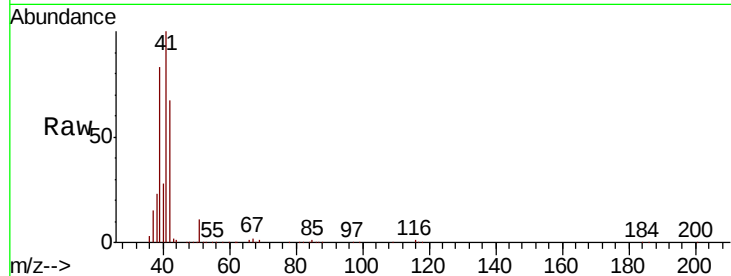
42 67.3 56.2 84.2

Manual Integrations

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#10

Heptane

Concen: 12.930 ppbv

RT: 8.25 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VL032982.D

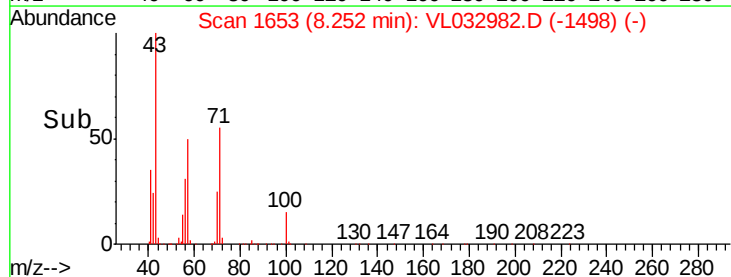
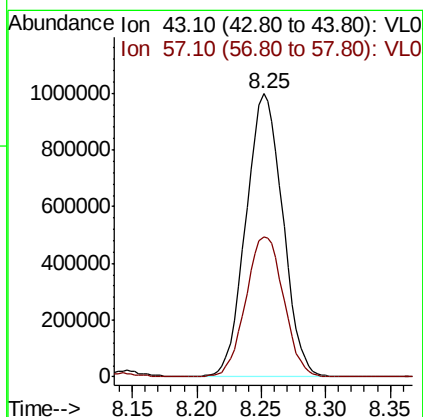
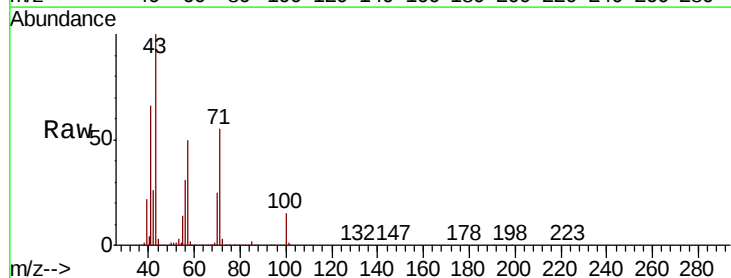
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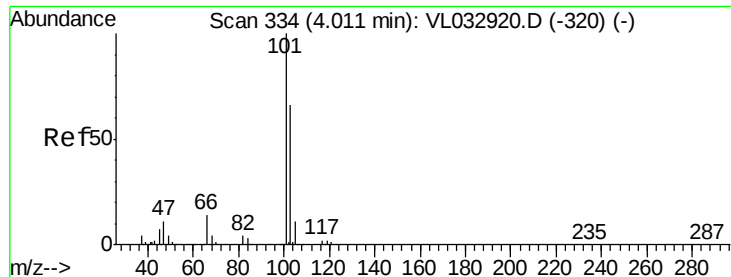
Tgt Ion: 43 Resp: 1980226

Ion Ratio Lower Upper

43 100

57 51.3 41.8 62.6





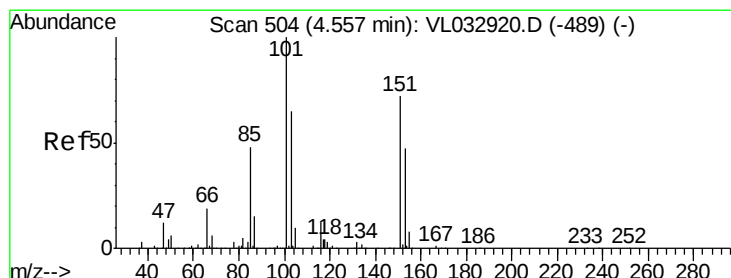
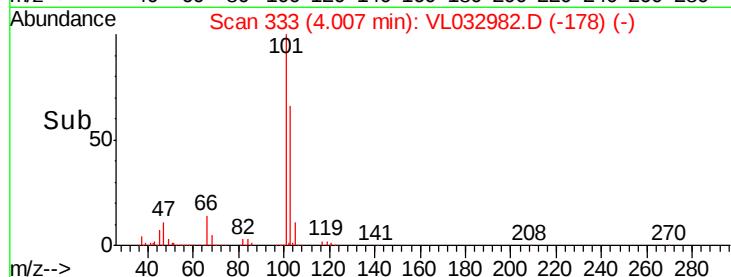
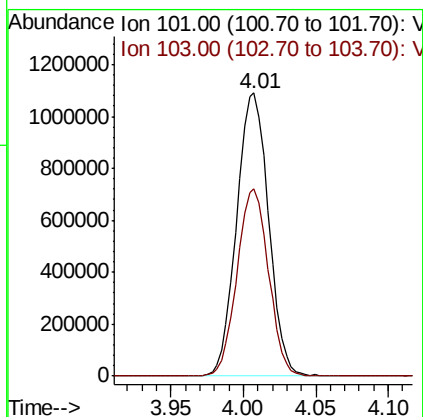
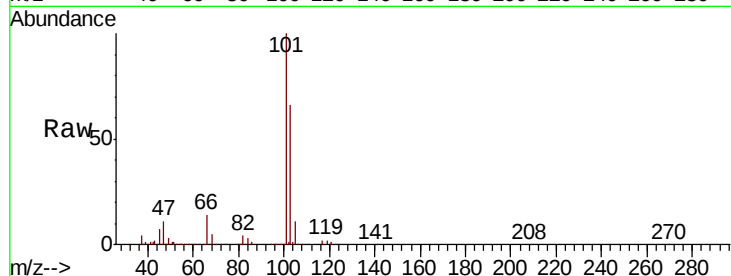
#11
 Trichlorofluoromethane
 Concen: 9.766 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. -0.00 min
 Lab File: VL032982.D
 Acq: 12 Dec 2018 12:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1672414
 Ion Ratio Lower Upper
 101 100
 103 66.1 52.7 79.1

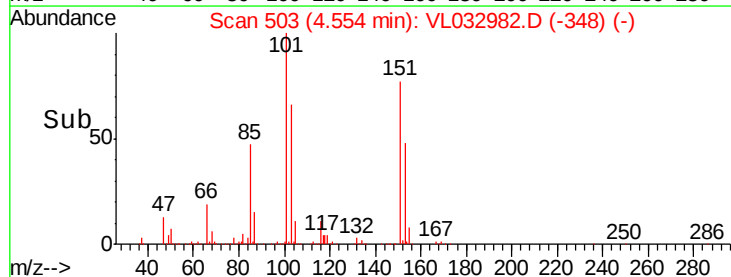
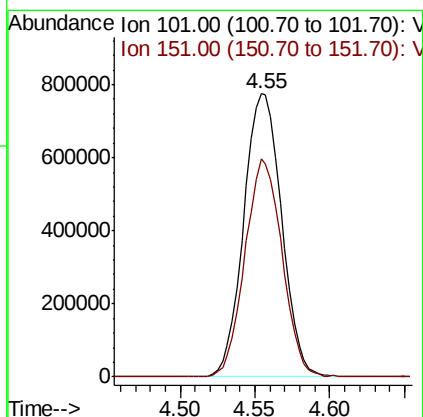
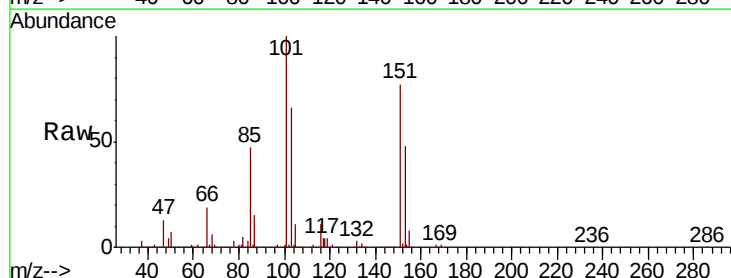
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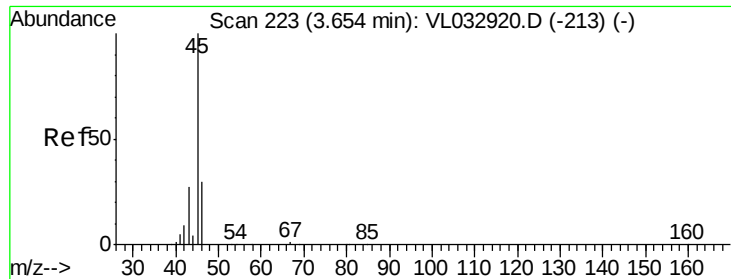
MMDadoda
 12/13/2018 7:58:59 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.364 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. -0.00 min
 Lab File: VL032982.D
 Acq: 12 Dec 2018 12:14

Tgt Ion:101 Resp: 1368076
 Ion Ratio Lower Upper
 101 100
 151 75.3 59.3 88.9





#13

Ethanol

Concen: 9.483 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 133116

Ion Ratio Lower Upper

45 100

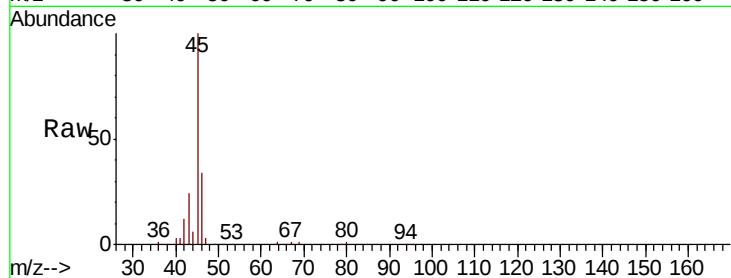
46 38.2 13.8 55.4

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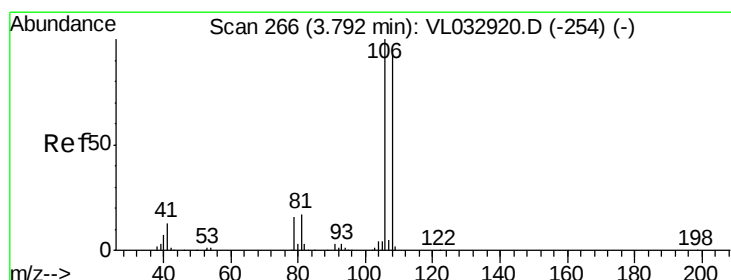
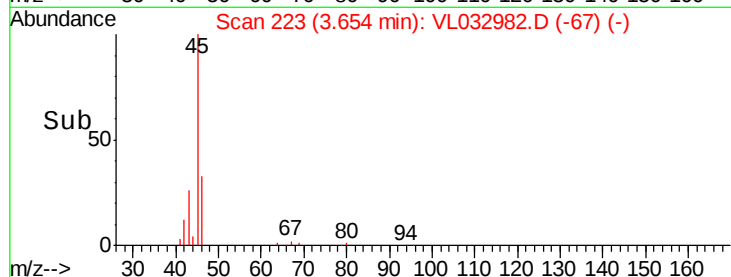
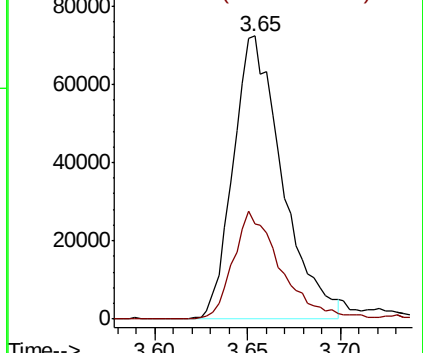
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 11.075 ppbv

RT: 3.79 min Scan# 265

Delta R.T. -0.00 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

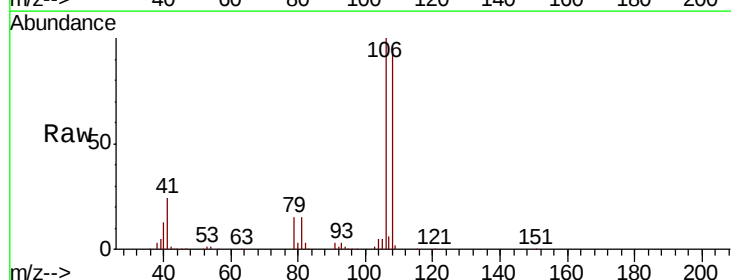
Tgt Ion: 108 Resp: 537231

Ion Ratio Lower Upper

108 100

106 107.7 85.4 128.2

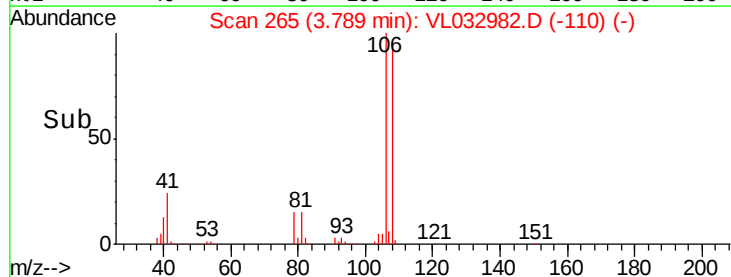
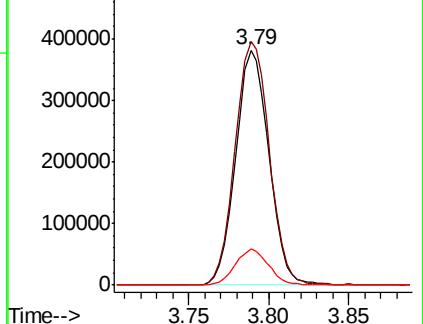
79 15.9 14.6 21.8

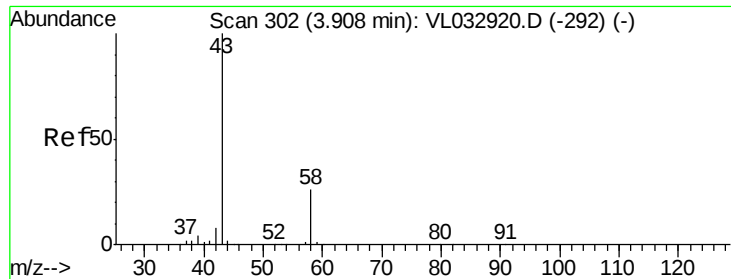


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 9.999 ppbv

RT: 3.90 min Scan# 301

Delta R.T. -0.00 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1168500

Ion Ratio Lower Upper

43 100

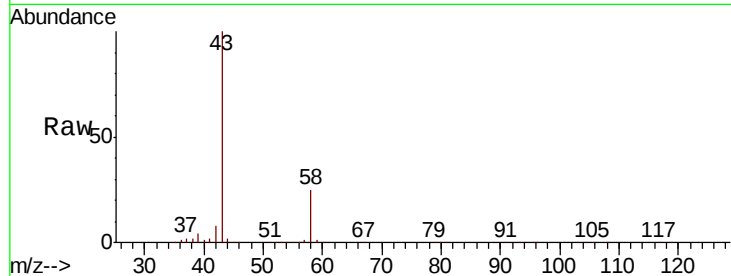
58 27.0 20.6 30.8

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

800000

600000

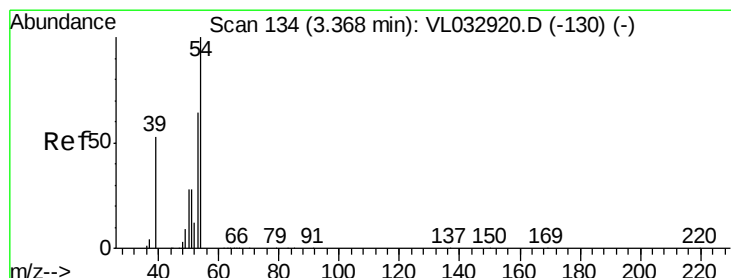
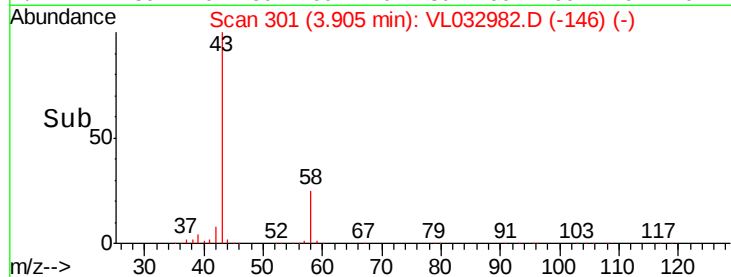
400000

200000

0

3.85 3.90 3.95 4.00

Time-->



#16

1,3-Butadiene

Concen: 12.529 ppbv

RT: 3.36 min Scan# 133

Delta R.T. -0.00 min

Lab File: VL032982.D

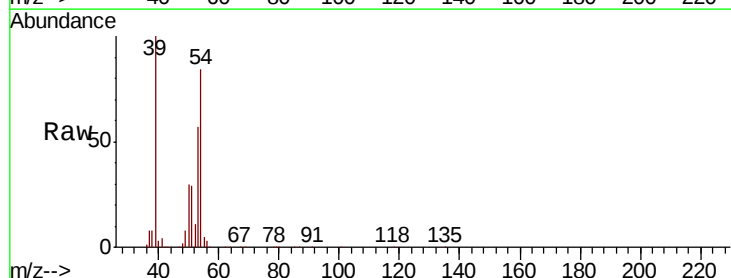
Acq: 12 Dec 2018 12:14

Tgt Ion: 39 Resp: 580884

Ion Ratio Lower Upper

39 100

54 91.5 72.7 109.1



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

500000

400000

300000

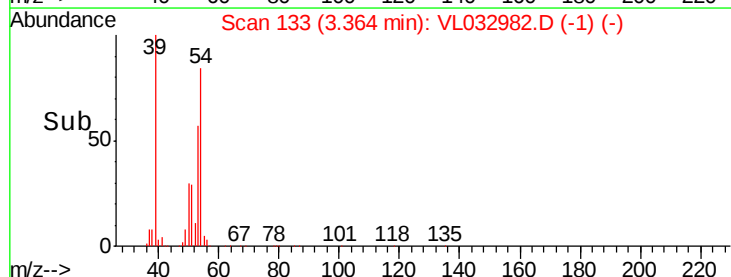
200000

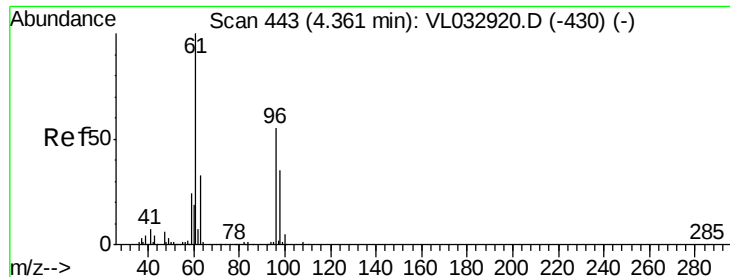
100000

0

3.34 3.36 3.38 3.40 3.42

Time-->





#17

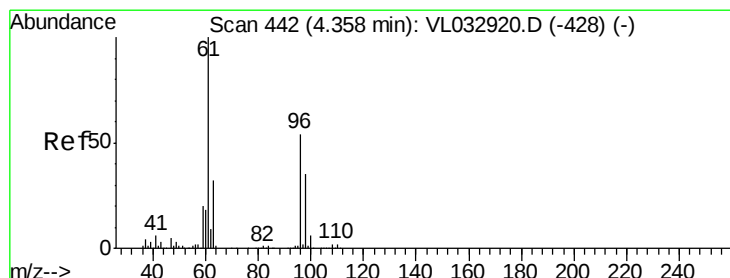
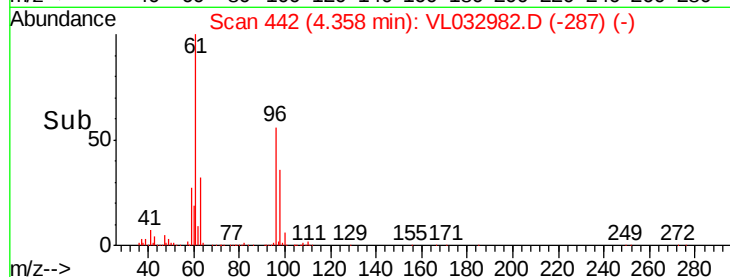
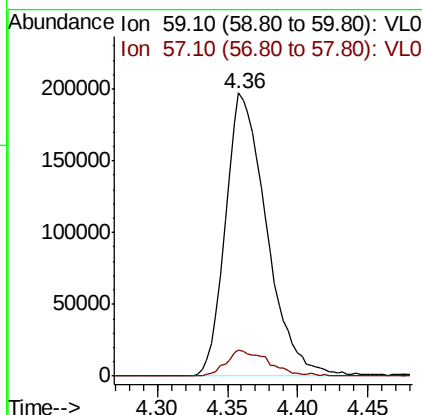
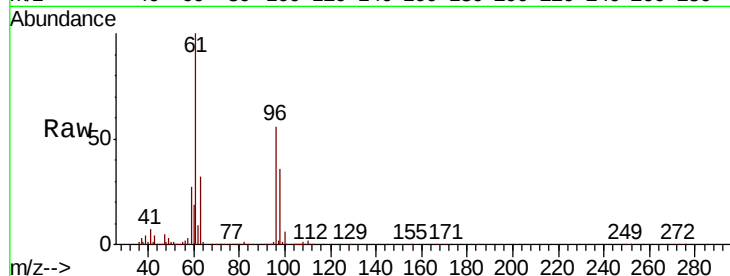
tert-Butyl alcohol
Concen: 13.459 ppbv
RT: 4.36 min Scan# 442
Delta R.T. -0.00 min
Lab File: VL032982.D
Acq: 12 Dec 2018 12:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.8	0.6	1.0#

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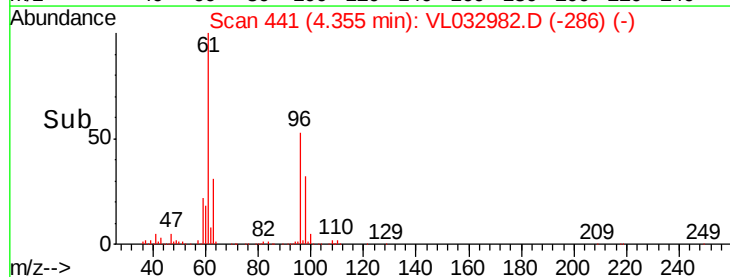
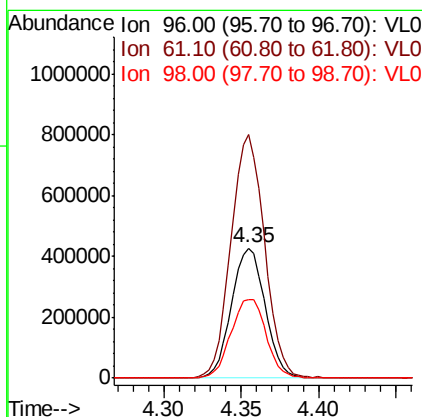
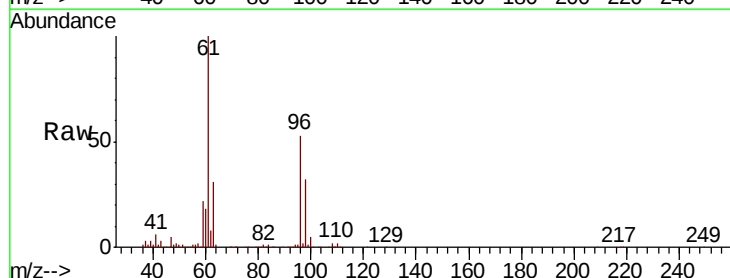
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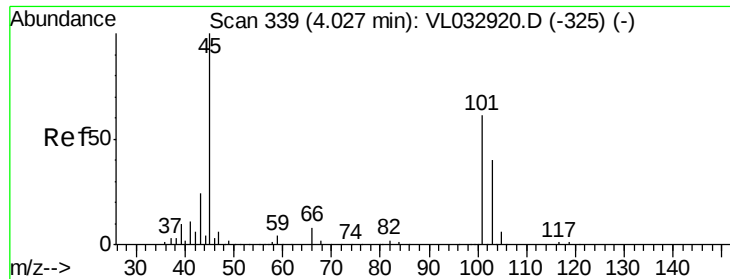


#18

1,1-Dichloroethene
Concen: 11.309 ppbv
RT: 4.35 min Scan# 441
Delta R.T. -0.00 min
Lab File: VL032982.D
Acq: 12 Dec 2018 12:14

Tgt Ion	Ratio	Lower	Upper
96	100		
61	187.6	147.0	220.4
98	60.9	50.7	76.1





#19

Isopropyl Alcohol

Concen: 12.758 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.00 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 936326

Ion Ratio Lower Upper

45 100

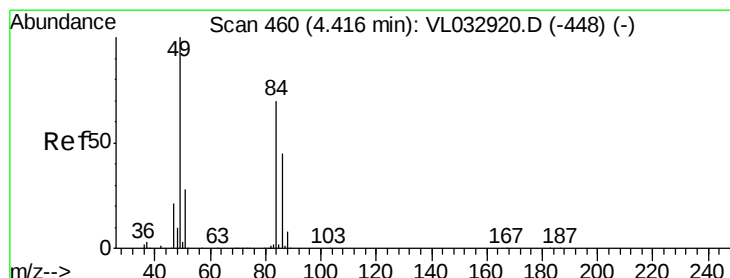
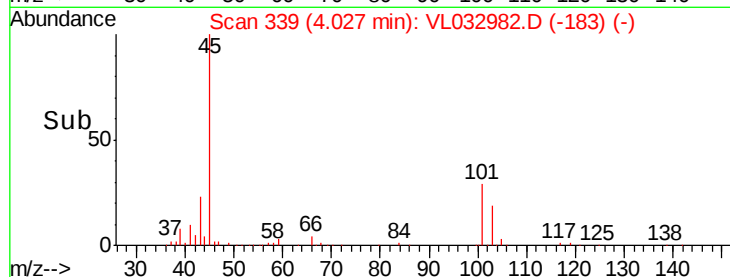
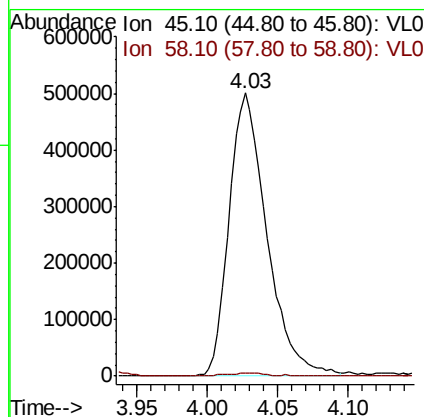
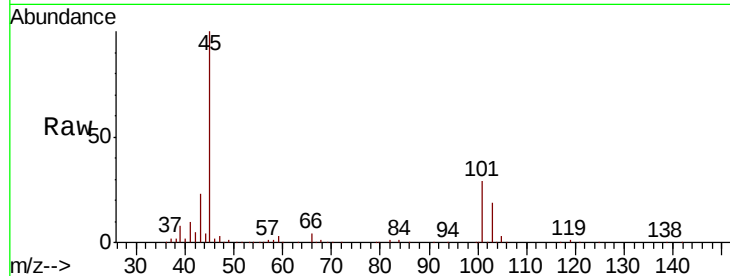
58 1.3 1.4 2.2#

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#20

Methylene Chloride

Concen: 10.232 ppbv

RT: 4.41 min Scan# 458

Delta R.T. -0.01 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

Tgt Ion: 84 Resp: 584396

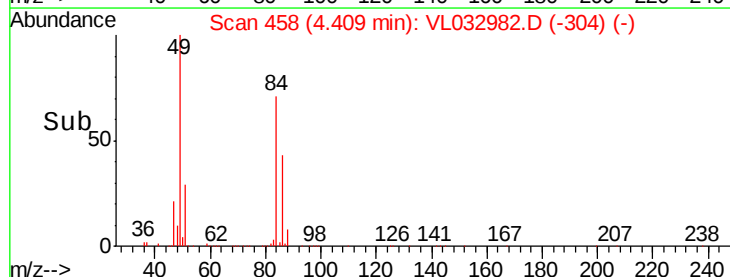
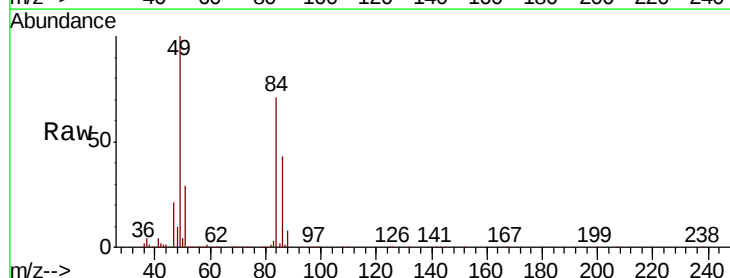
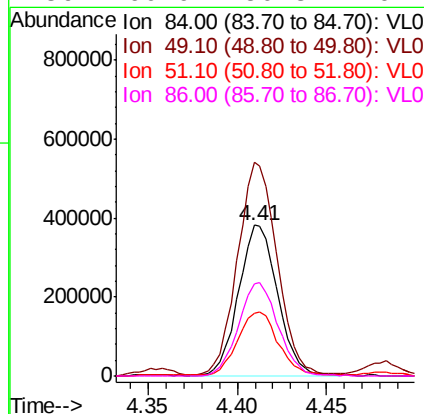
Ion Ratio Lower Upper

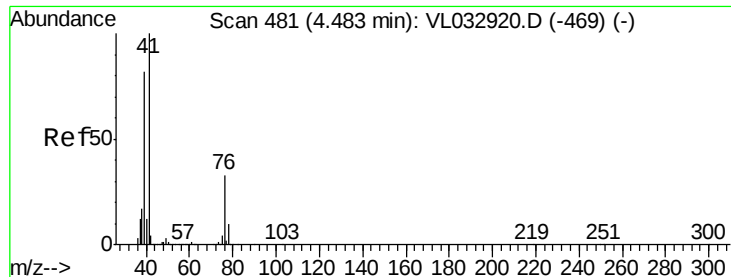
84 100

49 140.9 113.8 170.8

51 41.2 31.8 47.8

86 60.9 50.8 76.2





#21

Allvl Chloride

Concen: 11.008 ppbv

RT: 4.48 min Scan# 480

Delta R.T. -0.00 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 1048383

Ion Ratio Lower Upper

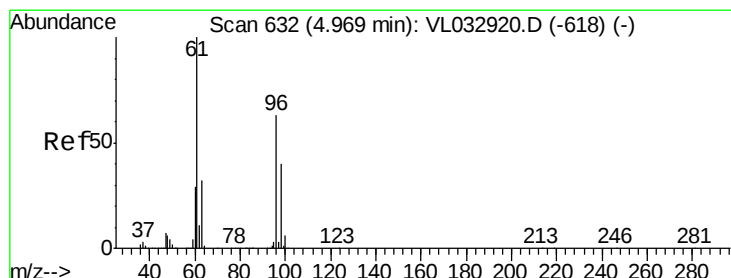
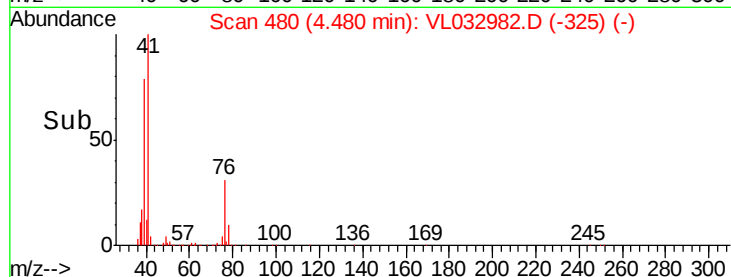
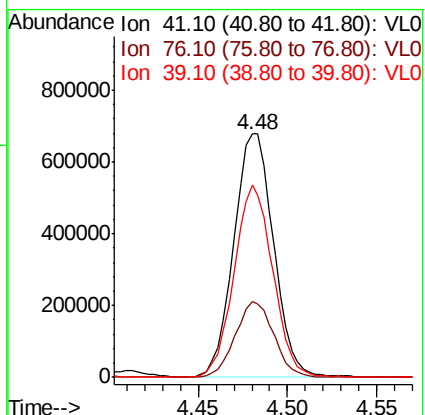
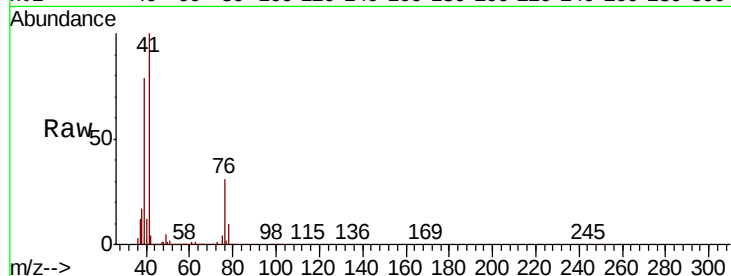
41 100

76 30.3 25.2 37.8

39 77.0 65.2 97.8

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#22

trans-1,2-Dichloroethene

Concen: 9.163 ppbv

RT: 4.97 min Scan# 631

Delta R.T. -0.00 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

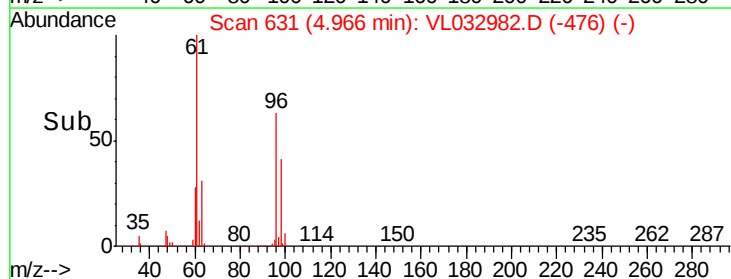
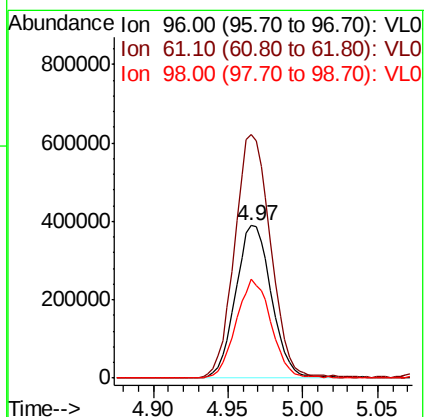
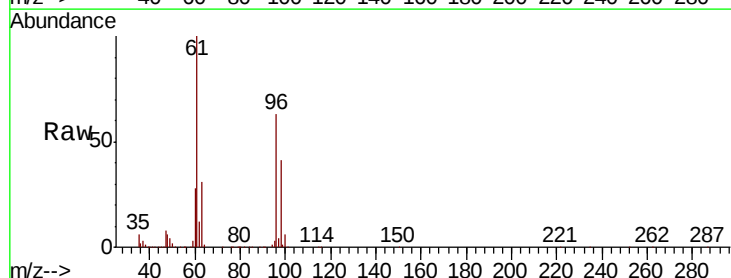
Tgt Ion: 96 Resp: 650689

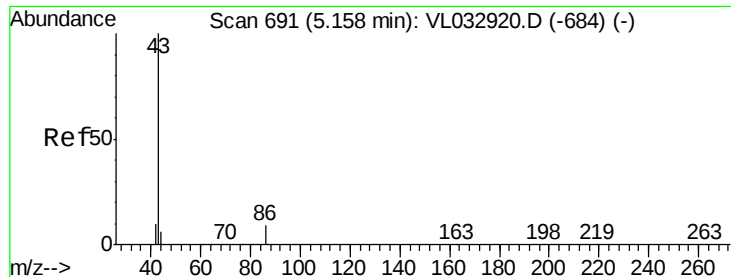
Ion Ratio Lower Upper

96 100

61 159.5 127.1 190.7

98 64.8 51.3 76.9





#23

Vinyl Acetate

Concen: 13.334 ppbv

RT: 5.16 min Scan# 691

Delta R.T. 0.00 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2638367

Ion Ratio Lower Upper

43 100

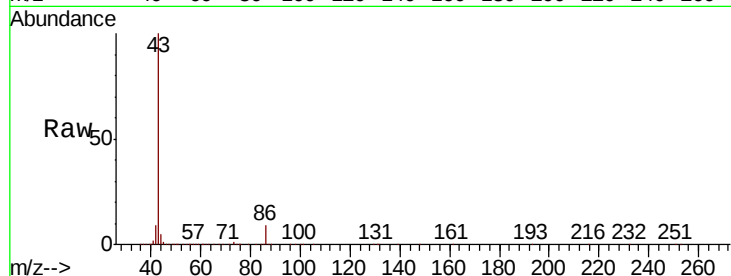
86 8.5 6.6 9.8

42 9.1 8.3 12.5

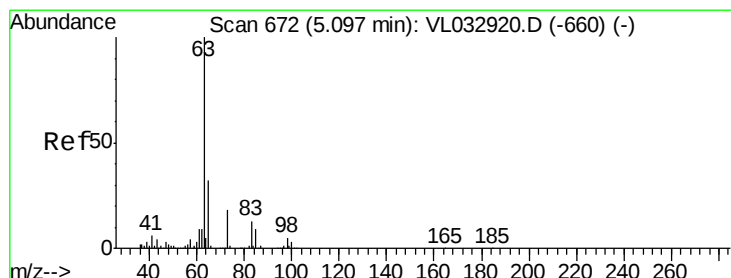
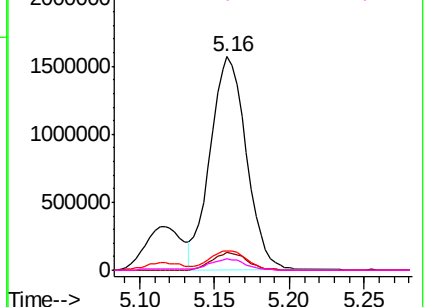
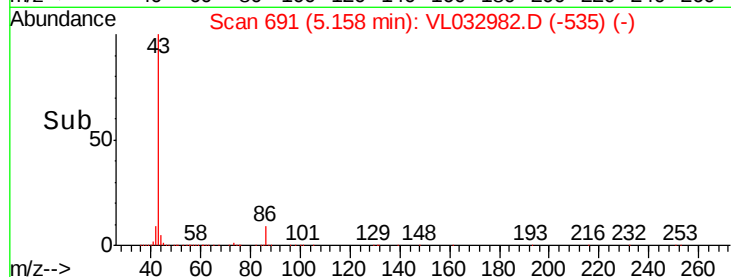
44 5.1 4.2 6.4

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



#24

1,1-Dichloroethane

Concen: 10.939 ppbv

RT: 5.09 min Scan# 671

Delta R.T. -0.00 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

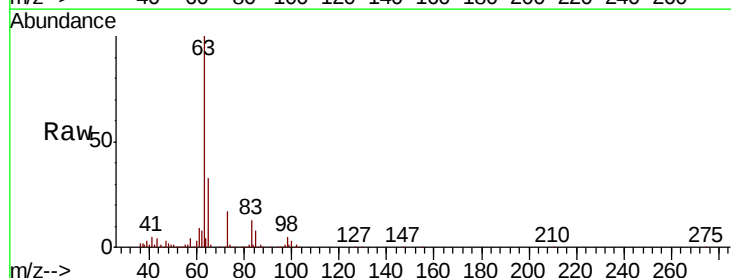
Tgt Ion: 63 Resp: 1882041

Ion Ratio Lower Upper

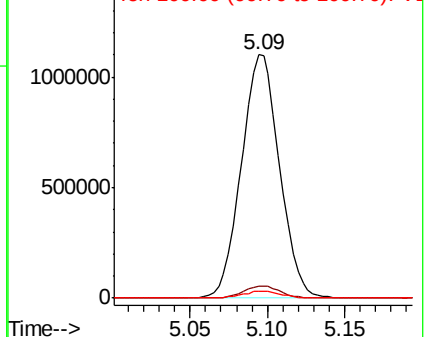
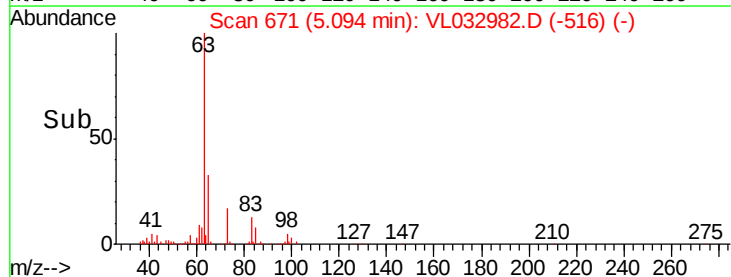
63 100

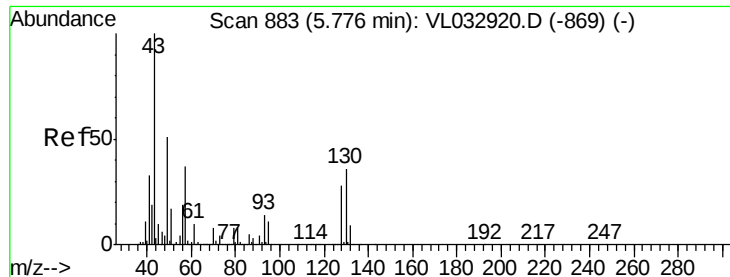
98 4.8 2.5 7.5

100 2.8 1.4 4.2



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





#25

Ethyl Acetate

Concen: 11.047 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.00 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 3049532

Ion Ratio Lower Upper

43 100

45 10.1 7.8 11.6

61 9.7 7.4 11.2

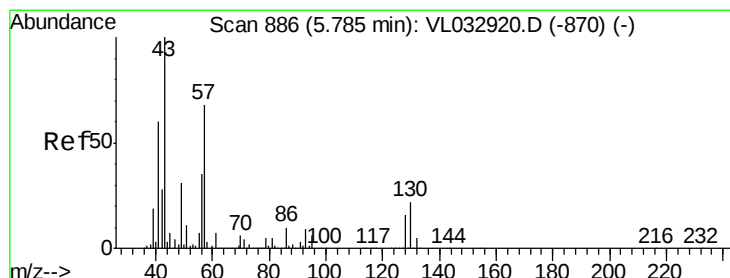
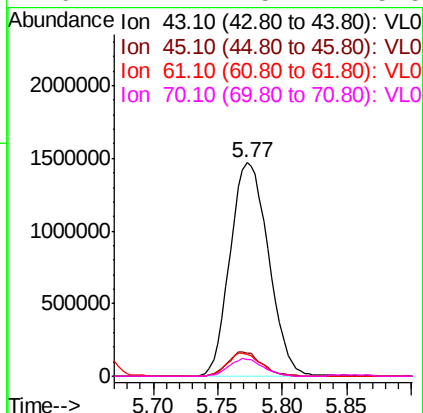
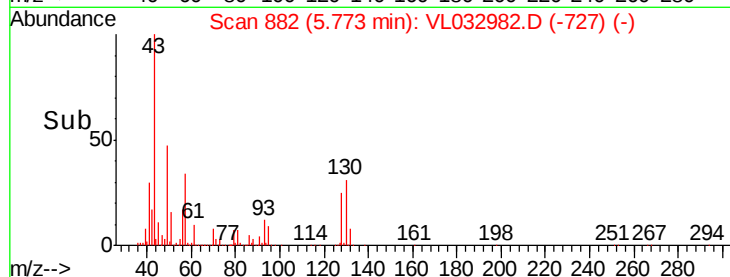
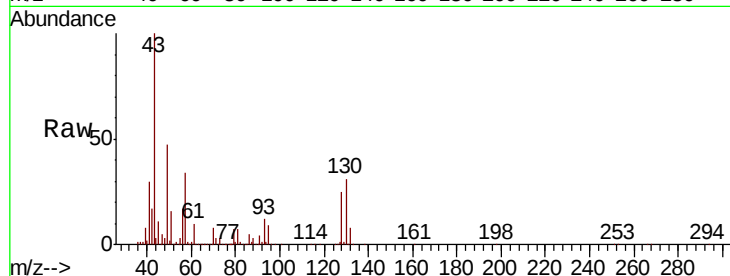
70 7.2 5.7 8.5

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#26

Hexane

Concen: 10.940 ppbv

RT: 5.78 min Scan# 885

Delta R.T. -0.00 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

Tgt Ion: 57 Resp: 1394331

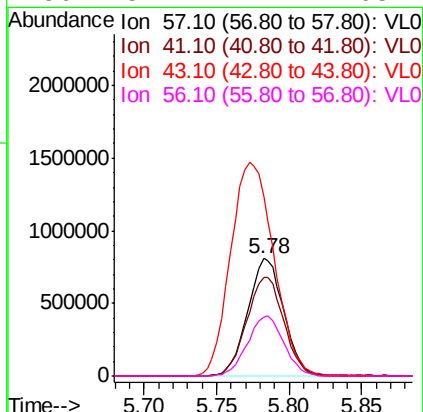
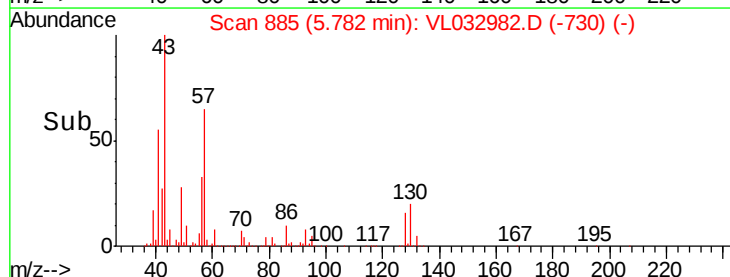
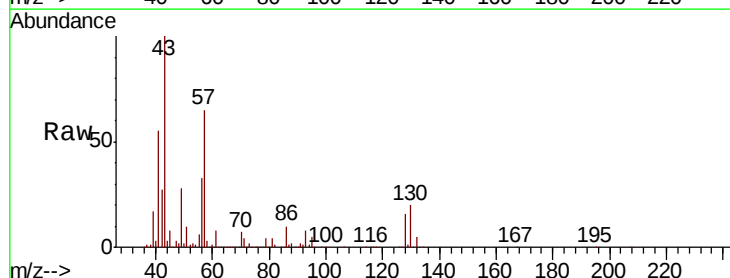
Ion Ratio Lower Upper

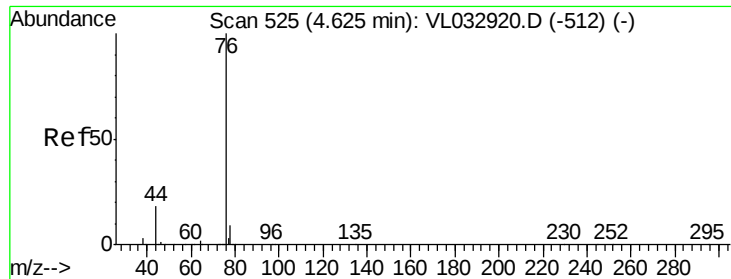
57 100

41 86.5 72.2 108.2

43 219.9 171.9 257.9

56 51.7 42.2 63.2





#27

Carbon Disulfide

Concen: 9.964 ppbv

RT: 4.62 min Scan# 524

Delta R.T. -0.00 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1587748

Ion Ratio Lower Upper

76 100

44 17.6 14.7 22.1

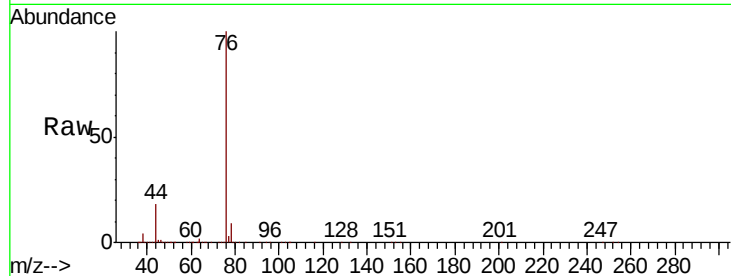
78 9.5 7.4 11.2

Manual Integrations

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MMDadoda

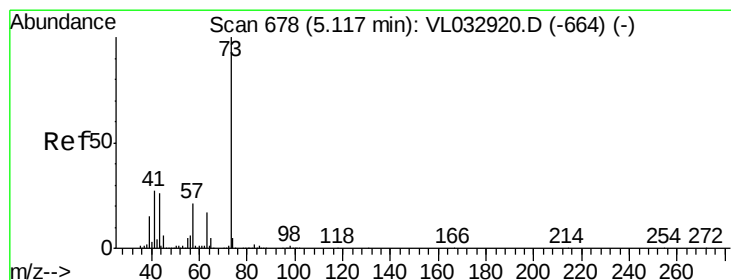
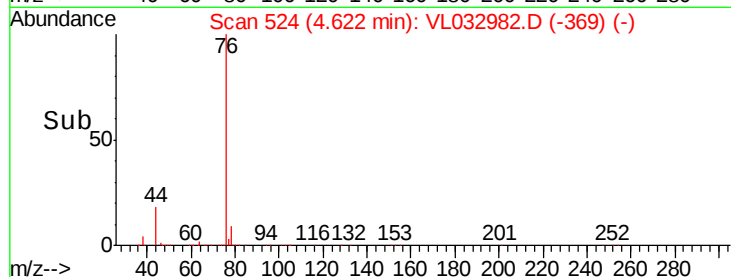
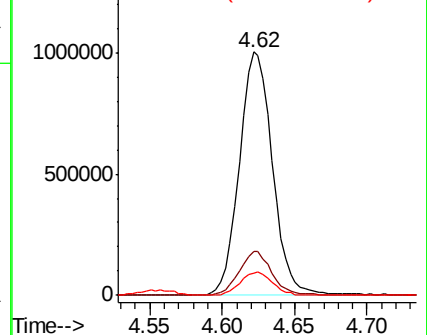
12/13/2018 7:58:59 AM



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: 12.696 ppbv

RT: 5.12 min Scan# 678

Delta R.T. 0.00 min

Lab File: VL032982.D

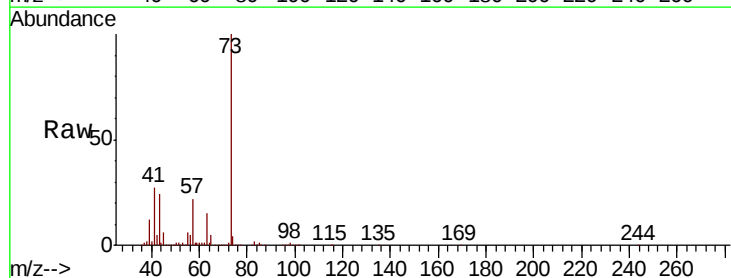
Acq: 12 Dec 2018 12:14

Tgt Ion: 73 Resp: 2430289

Ion Ratio Lower Upper

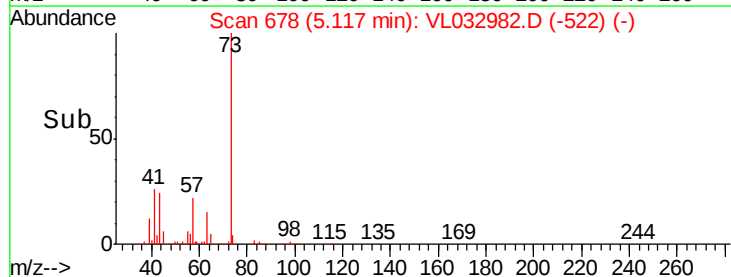
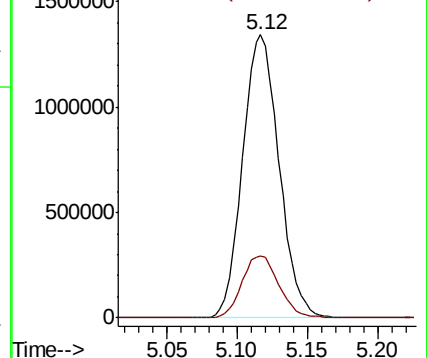
73 100

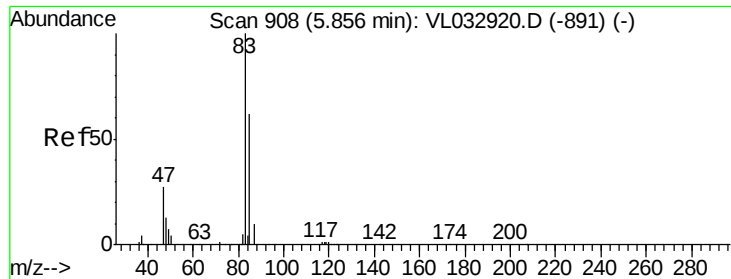
57 22.4 17.4 26.0



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





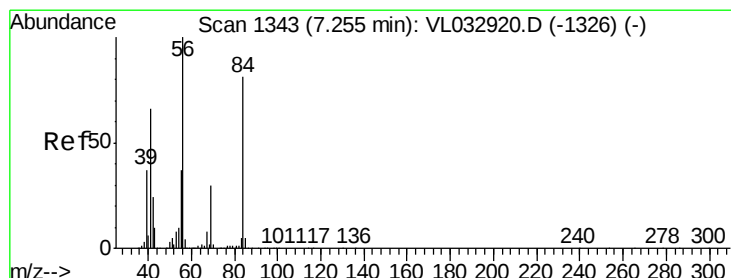
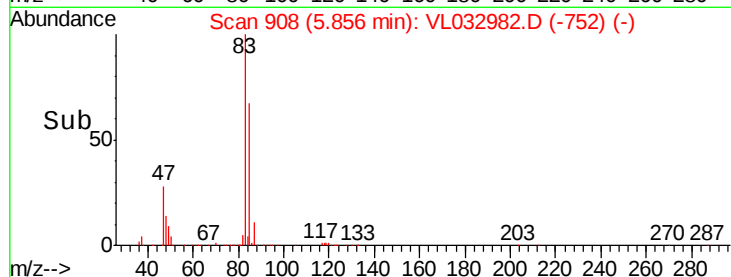
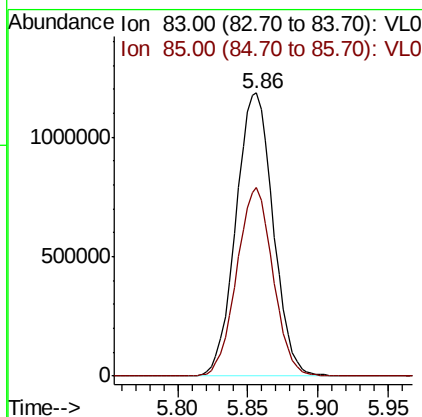
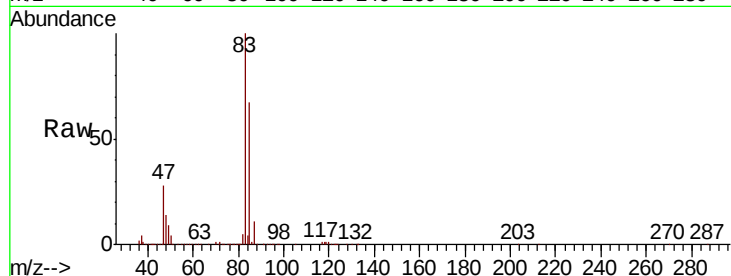
#29
Chloroform
Concen: 9.637 ppbv
RT: 5.86 min Scan# 908
Delta R.T. 0.00 min
Lab File: VL032982.D
Acq: 12 Dec 2018 12:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 2191572
Ion Ratio Lower Upper
83 100
85 66.8 49.8 74.8

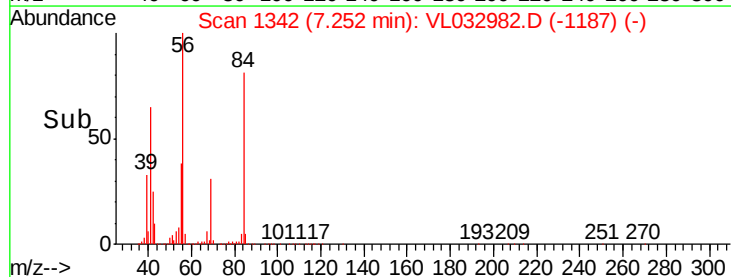
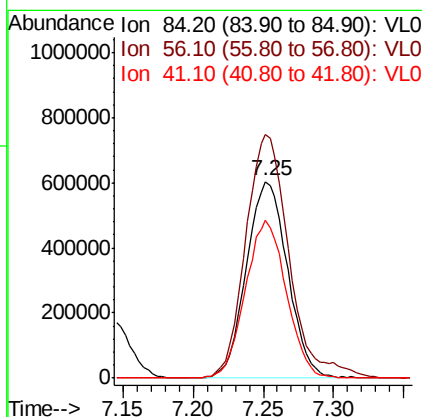
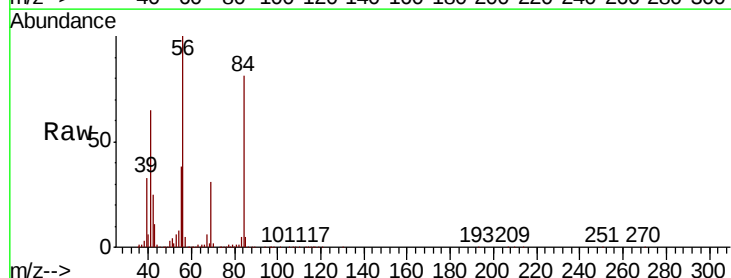
Manual Integrations
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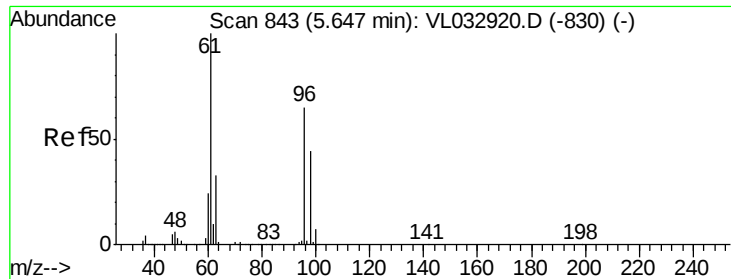
MMDadoda
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#30
Cyclohexane
Concen: 11.678 ppbv
RT: 7.25 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VL032982.D
Acq: 12 Dec 2018 12:14

Tgt Ion: 84 Resp: 1233579
Ion Ratio Lower Upper
84 100
56 131.1 102.5 153.7
41 79.7 64.1 96.1





#31

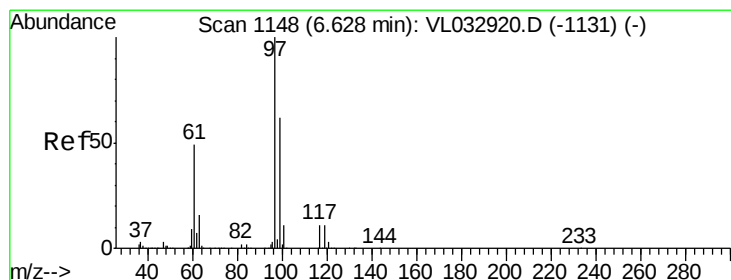
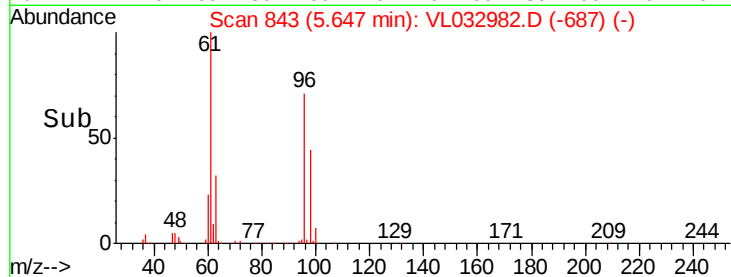
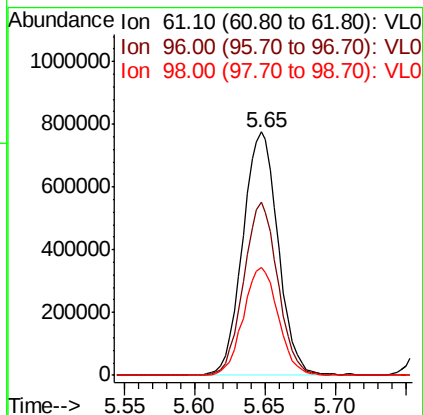
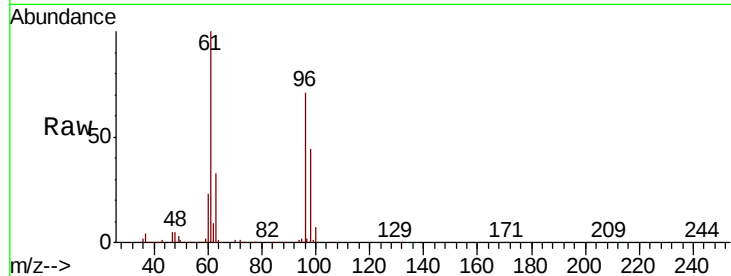
cis-1,2-Dichloroethene
Concen: 11.635 ppbv
RT: 5.65 min Scan# 843
Delta R.T. 0.00 min
Lab File: VL032982.D
Acq: 12 Dec 2018 12:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	71.0	51.9	77.9
98	44.1	35.0	52.4

Manual Integrations
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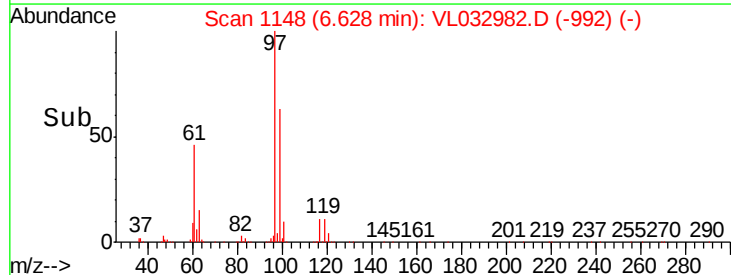
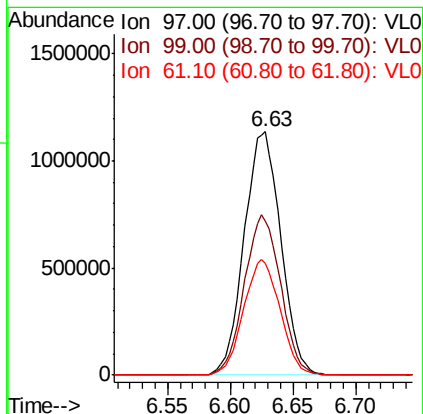
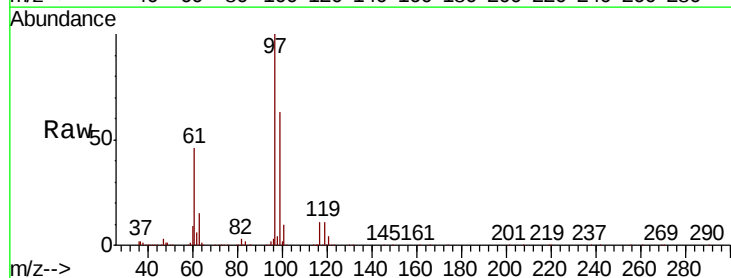
MMDadoda
12/13/2018 7:58:59 AM

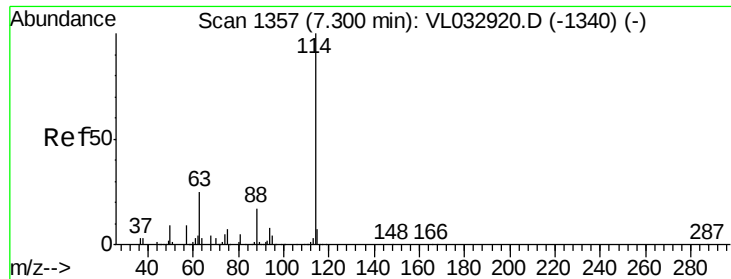


#32

1,1,1-Trichloroethane
Concen: 9.602 ppbv
RT: 6.63 min Scan# 1148
Delta R.T. 0.00 min
Lab File: VL032982.D
Acq: 12 Dec 2018 12:14

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.1	51.1	76.7
61	47.3	39.3	58.9





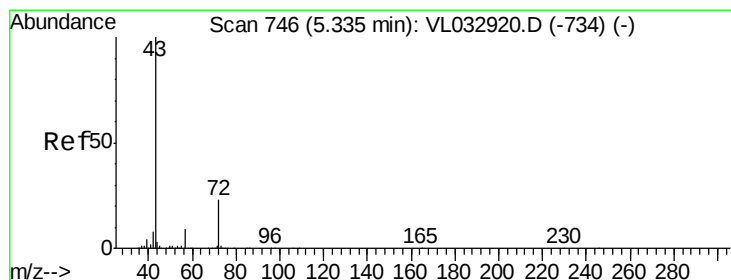
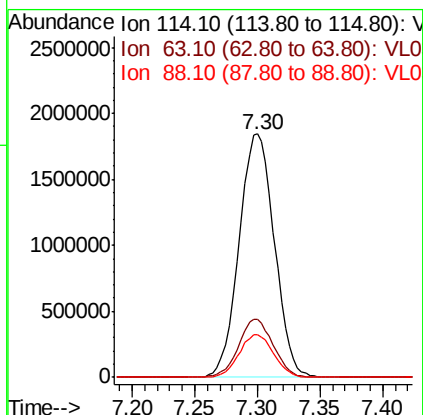
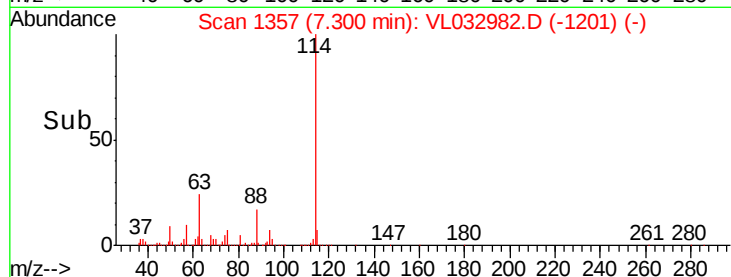
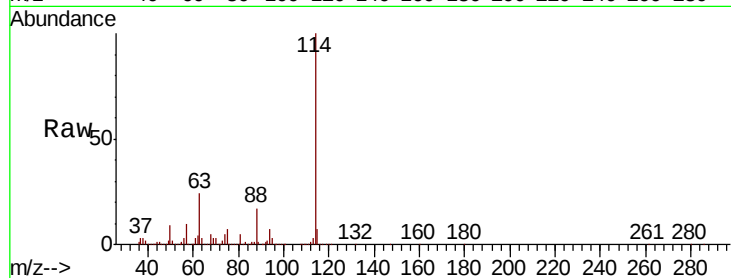
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1357
 Delta R.T. 0.00 min
 Lab File: VL032982.D
 Acq: 12 Dec 2018 12:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.8	20.1	30.1
88	17.3	14.2	21.4

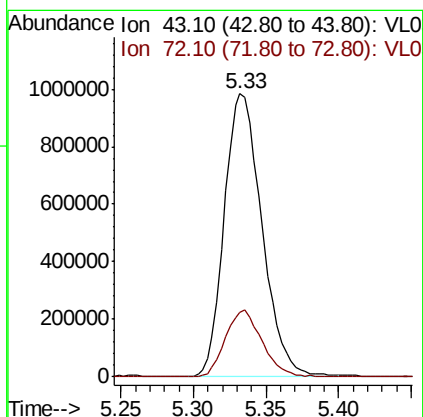
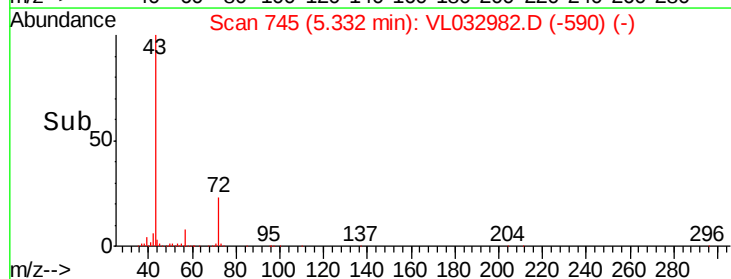
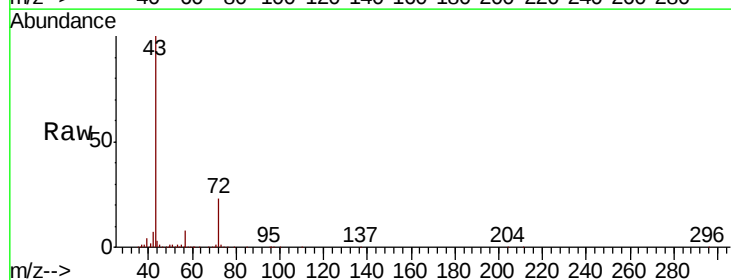
Manual Integrations
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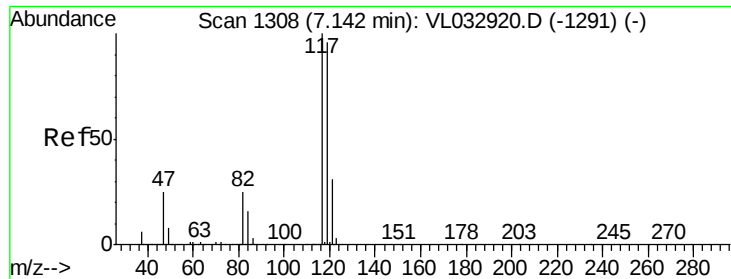
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 12/13/2018 7:58:59 AM



#34
 2-Butanone
 Concen: 11.193 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. -0.00 min
 Lab File: VL032982.D
 Acq: 12 Dec 2018 12:14

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.4	18.8	28.2





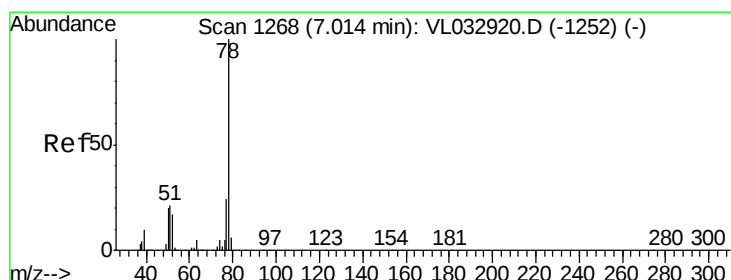
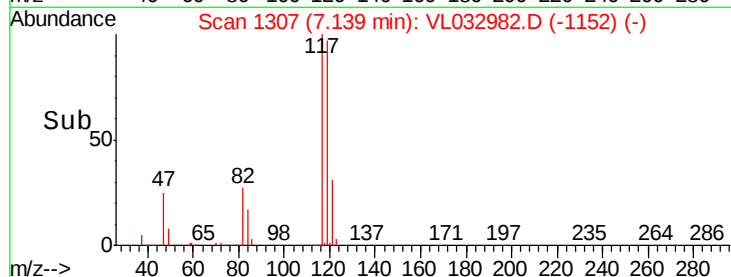
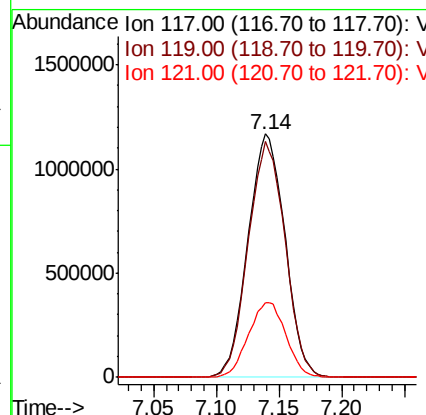
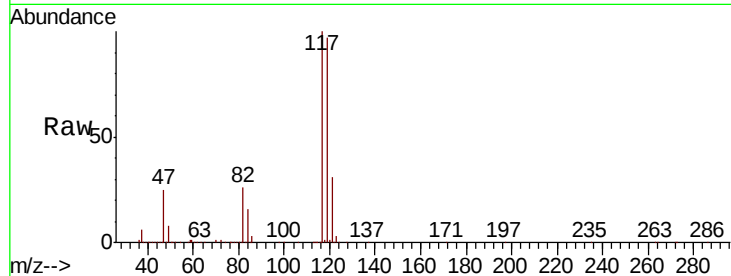
#35
Carbon Tetrachloride
Concen: 8.463 ppbv
RT: 7.14 min Scan# 1307
Delta R.T. -0.00 min
Lab File: VL032982.D
Acq: 12 Dec 2018 12:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
119	96.8	76.5	114.7
121	30.8	24.5	36.7

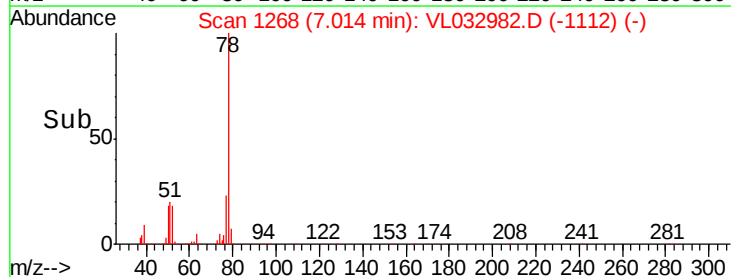
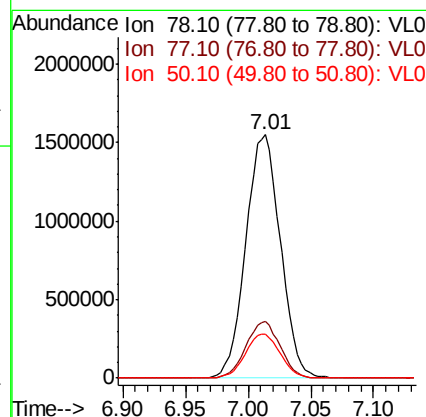
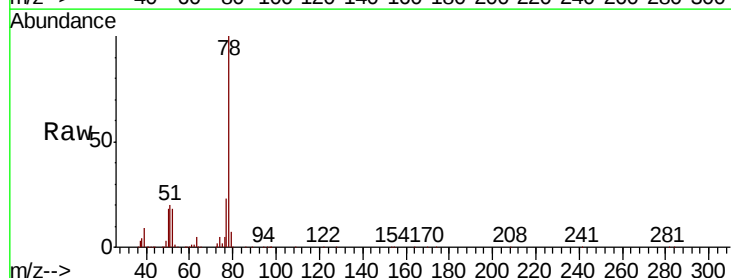
Manual Integrations
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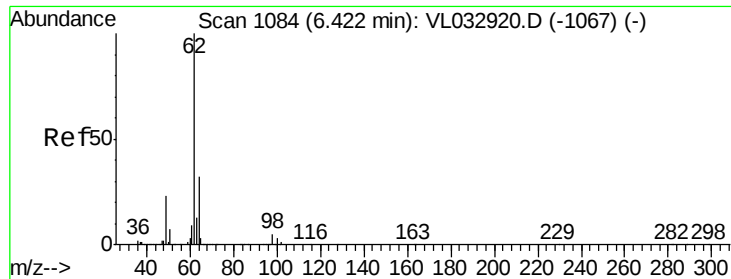
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#36
Benzene
Concen: 11.225 ppbv
RT: 7.01 min Scan# 1268
Delta R.T. 0.00 min
Lab File: VL032982.D
Acq: 12 Dec 2018 12:14

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.9	28.3
50	18.1	16.1	24.1





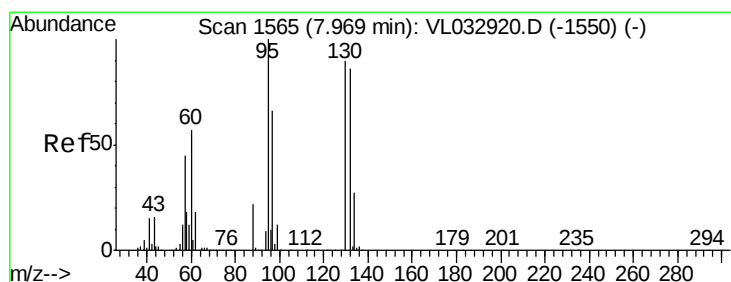
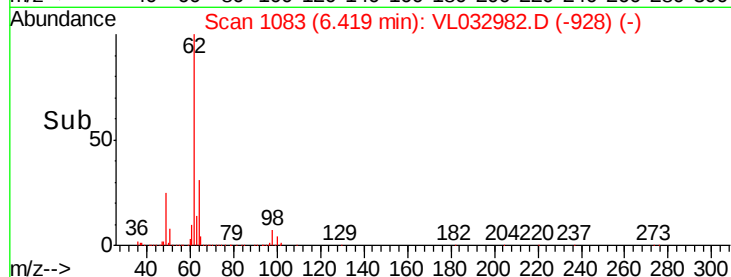
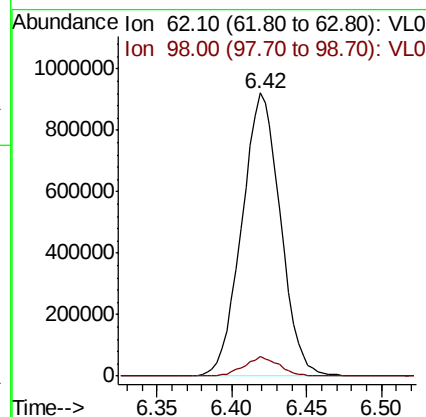
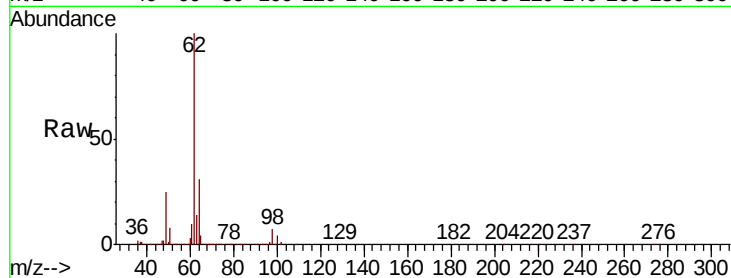
#37
 1,2-Dichloroethane
 Concen: 9.172 ppbv
 RT: 6.42 min Scan# 1083
 Delta R.T. -0.00 min
 Lab File: VL032982.D
 Acq: 12 Dec 2018 12:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.4	4.3	6.5

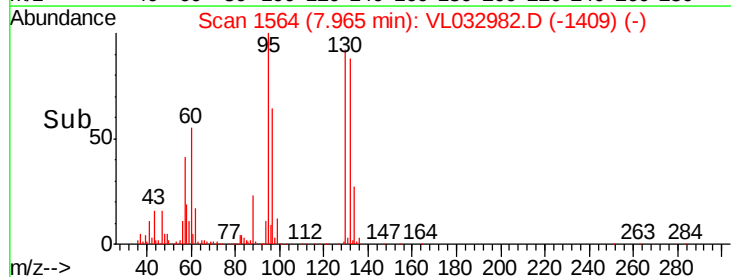
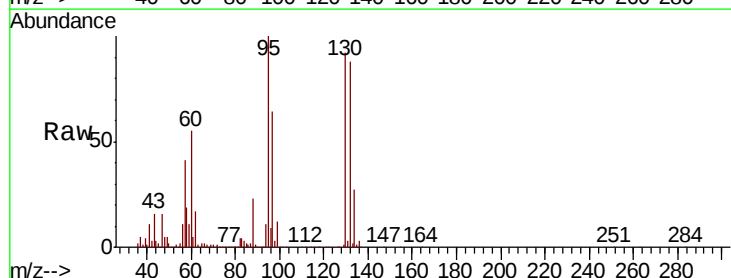
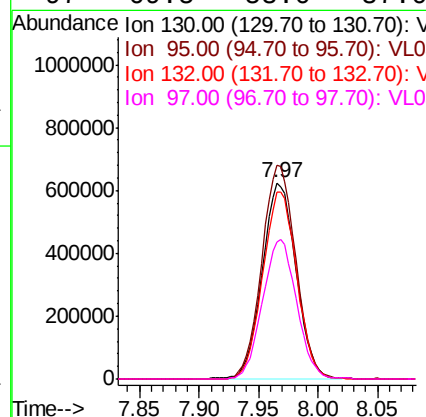
Manual Integrations
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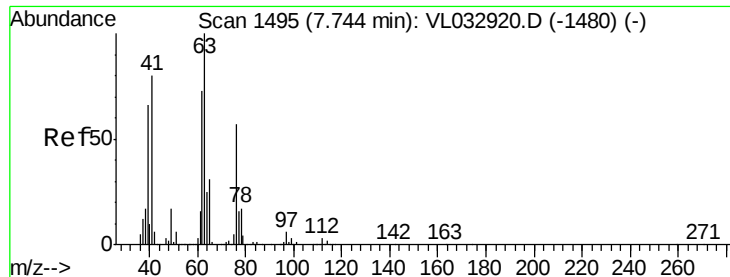
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#38
 Trichloroethene
 Concen: 11.137 ppbv
 RT: 7.97 min Scan# 1564
 Delta R.T. -0.00 min
 Lab File: VL032982.D
 Acq: 12 Dec 2018 12:14

Tgt Ion	Ratio	Lower	Upper
130	100		
95	108.8	88.6	132.8
132	95.5	76.1	114.1
97	69.5	58.0	87.0





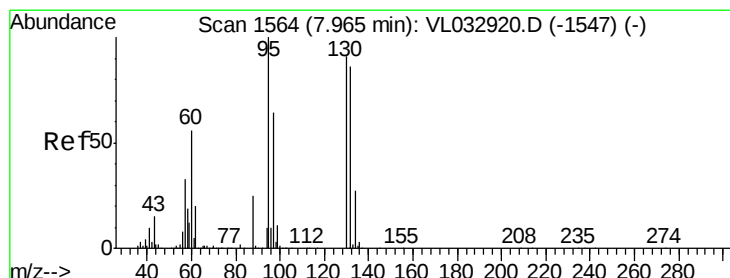
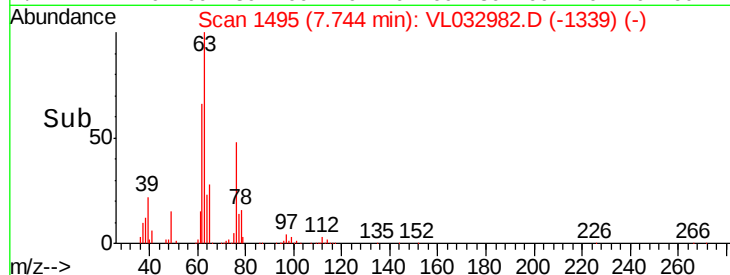
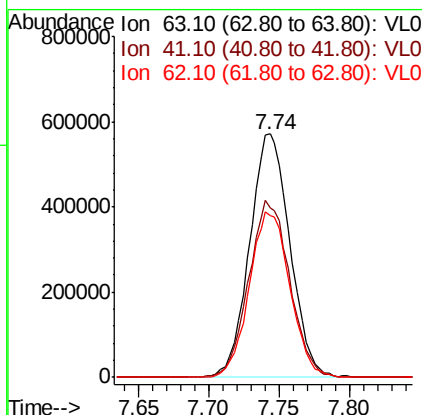
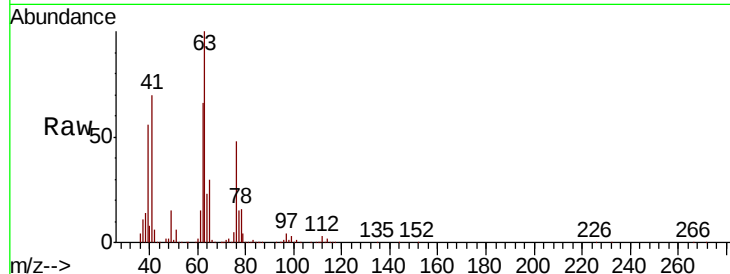
#39
 1,2-Dichloropropane
 Concen: 11.317 ppbv
 RT: 7.74 min Scan# 1495
 Delta R.T. 0.00 min
 Lab File: VL032982.D
 Acq: 12 Dec 2018 12:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	69.7	63.9	95.9
62	66.3	58.8	88.2

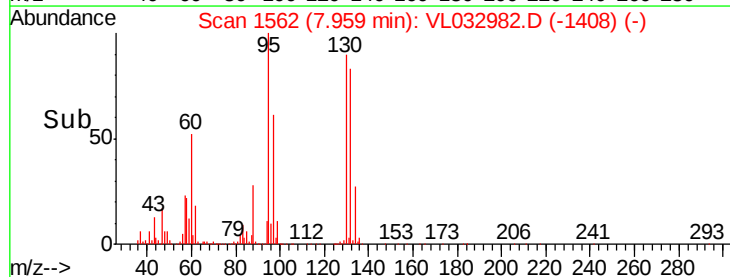
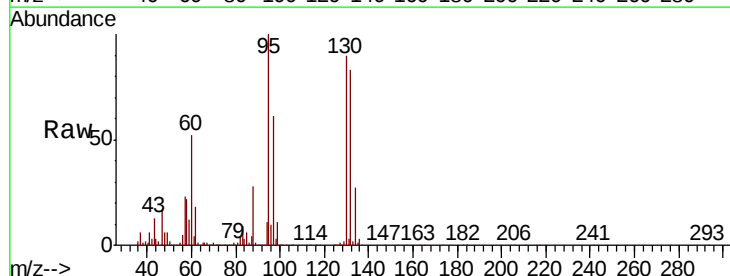
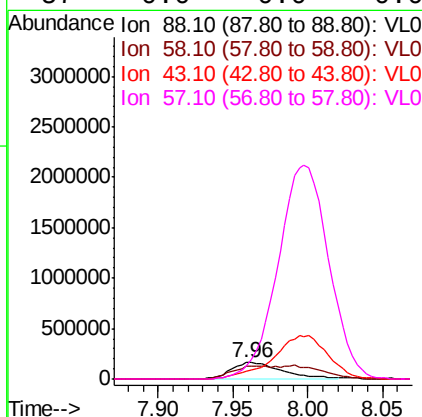
Manual Integrations
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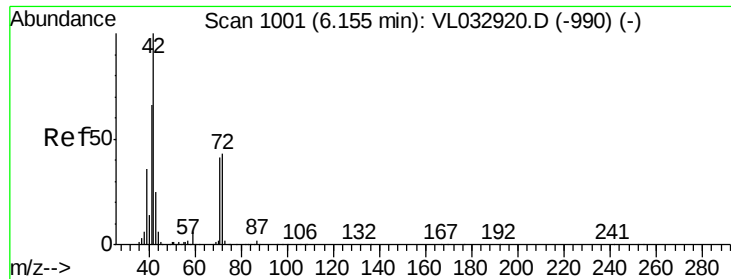
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#40
 1,4-Dioxane
 Concen: 10.247 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. -0.01 min
 Lab File: VL032982.D
 Acq: 12 Dec 2018 12:14

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	107.4	161.2#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





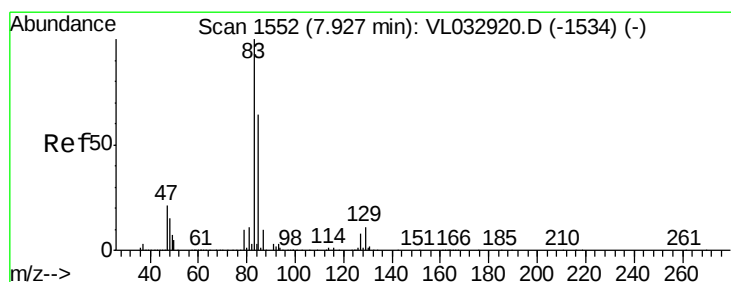
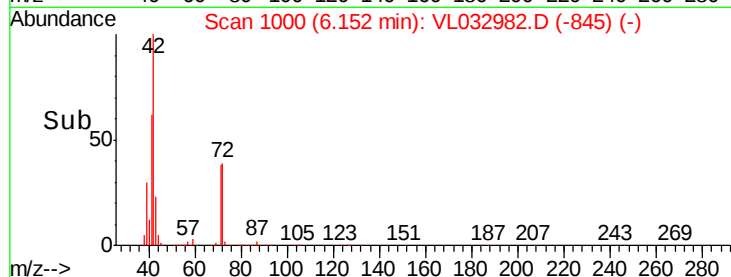
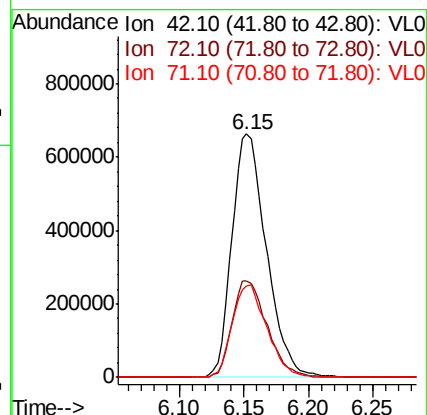
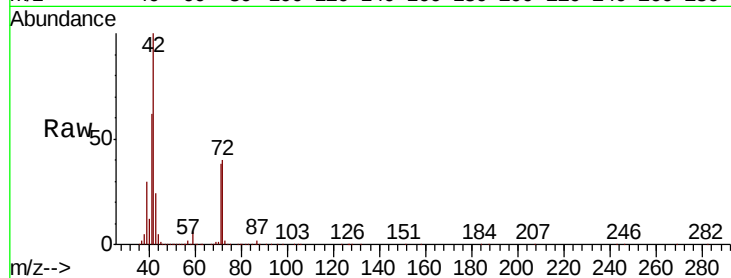
#41
Tetrahydrofuran
Concen: 12.624 ppbv
RT: 6.15 min Scan# 1000
Delta R.T. -0.00 min
Lab File: VL032982.D
Acq: 12 Dec 2018 12:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.5	32.9	49.3
71	38.5	32.0	48.0

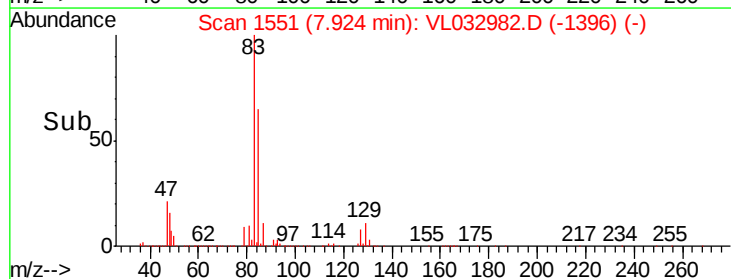
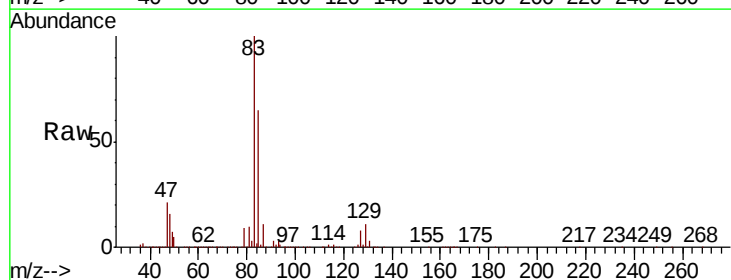
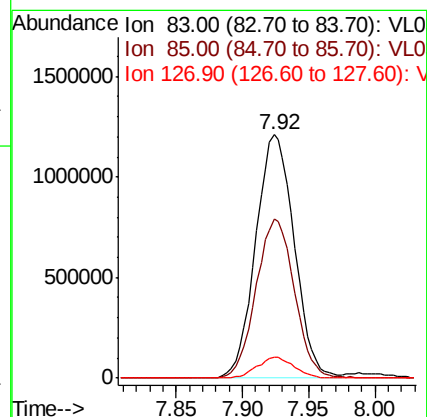
Manual Integrations
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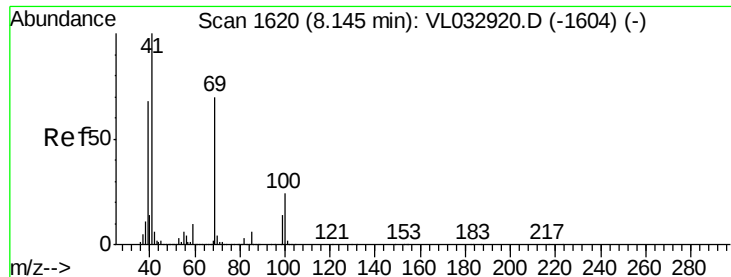
MMDadoda
12/13/2018 7:58:59 AM



#42
Bromodichloromethane
Concen: 9.781 ppbv
RT: 7.92 min Scan# 1551
Delta R.T. -0.00 min
Lab File: VL032982.D
Acq: 12 Dec 2018 12:14

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.3	50.9	76.3
127	8.5	6.7	10.1





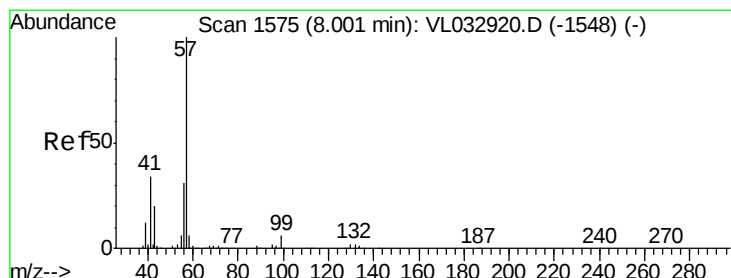
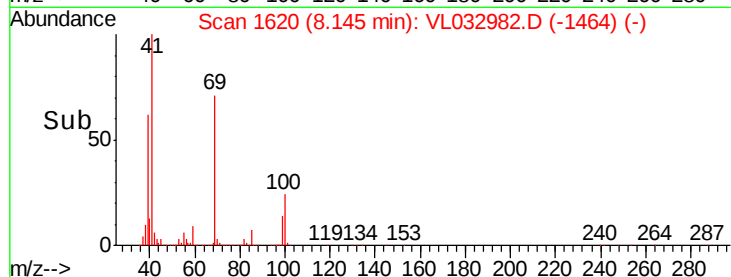
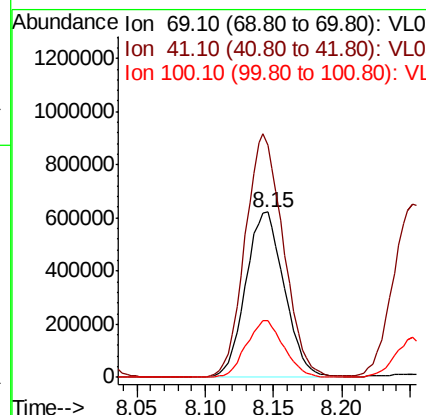
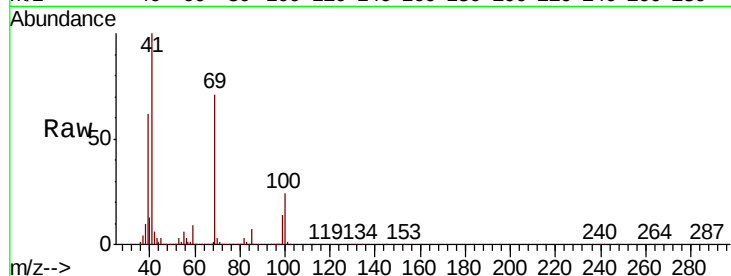
#43
Methvl Methacrilate
Concen: 12.451 ppbv
RT: 8.15 min Scan# 1620
Delta R.T. 0.00 min
Lab File: VL032982.D
Acq: 12 Dec 2018 12:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 69 Resp: 1222748
Ion Ratio Lower Upper
69 100
41 145.3 116.6 175.0
100 33.5 26.5 39.7

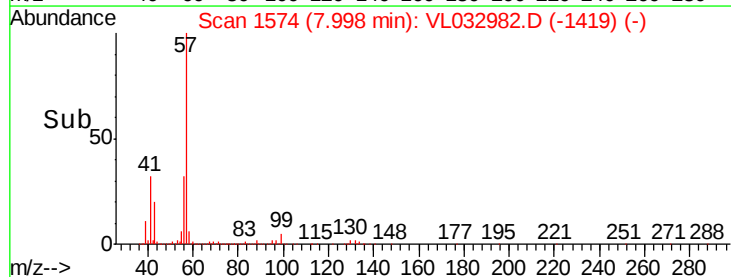
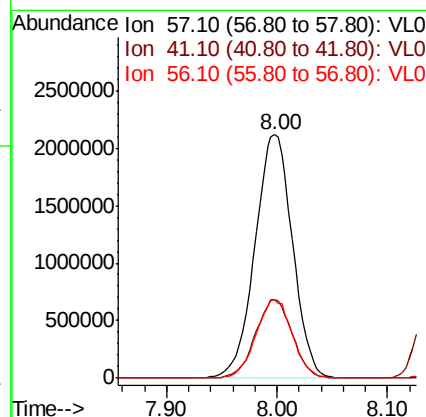
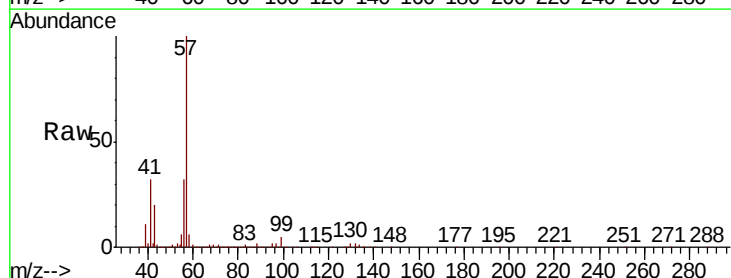
Manual Integrations
APPROVED

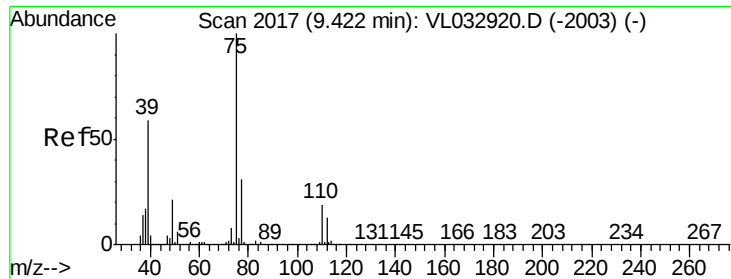
MMDadoda
12/13/2018 7:58:59 AM



#44
2,2,4-Trimethylpentane
Concen: 11.144 ppbv
RT: 8.00 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VL032982.D
Acq: 12 Dec 2018 12:14

Tgt Ion: 57 Resp: 5013482
Ion Ratio Lower Upper
57 100
41 31.5 27.0 40.4
56 31.2 24.6 37.0





#45

t-1,3-Dichloropropene

Concen: 13.294 ppbv

RT: 9.42 min Scan# 2017

Delta R.T. 0.00 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 75 Resp: 1600804

Ion Ratio Lower Upper

75 100

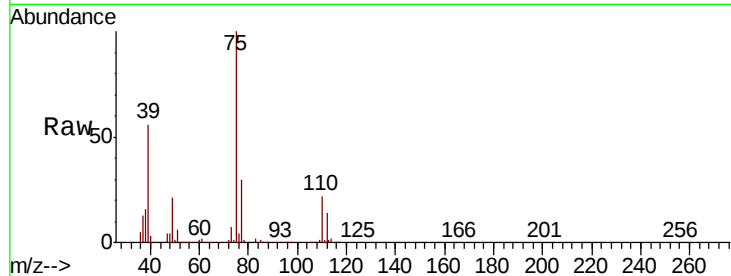
77 29.7 24.8 37.2

Manual Integrations

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.42

800000

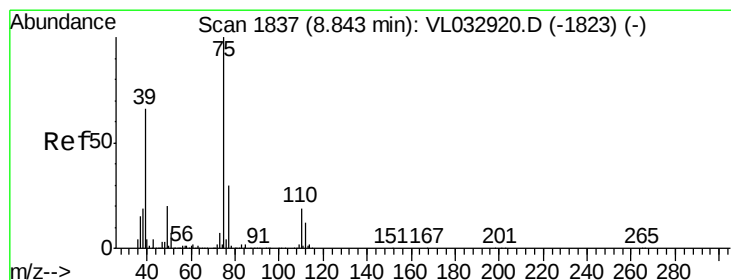
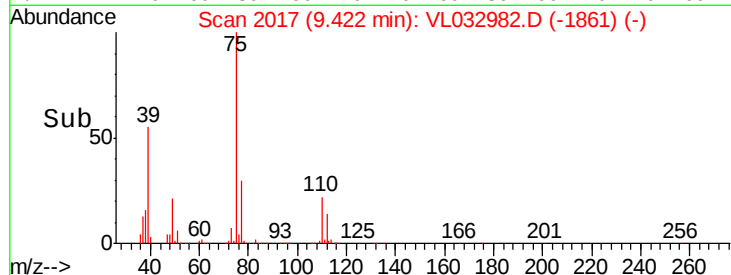
600000

400000

200000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 12.662 ppbv

RT: 8.84 min Scan# 1836

Delta R.T. -0.00 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

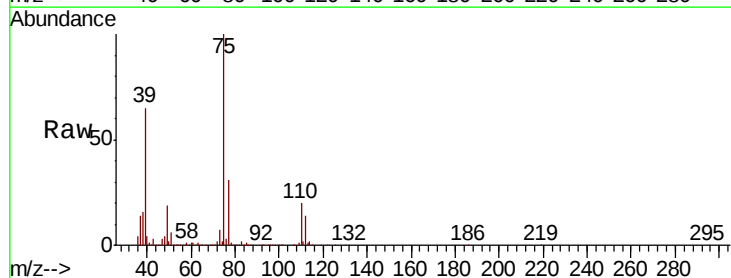
Tgt Ion: 75 Resp: 1866121

Ion Ratio Lower Upper

75 100

39 64.7 52.8 79.2

77 31.5 24.3 36.5



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

1200000

1000000

800000

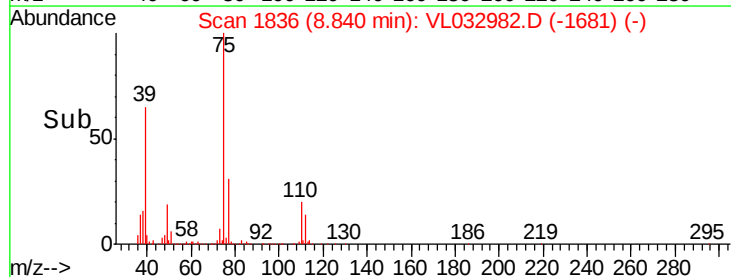
600000

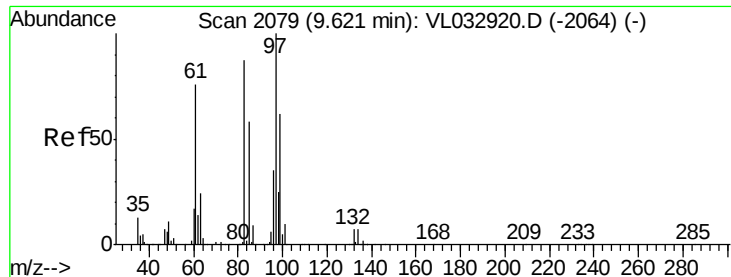
400000

200000

0

Time-->





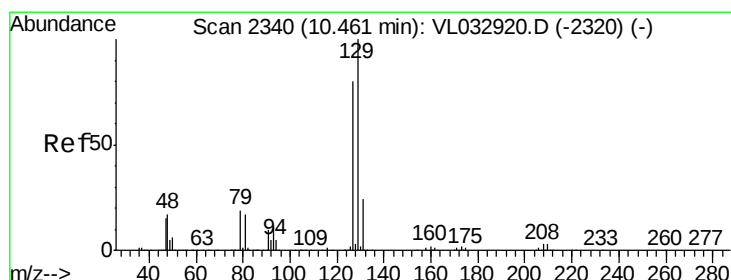
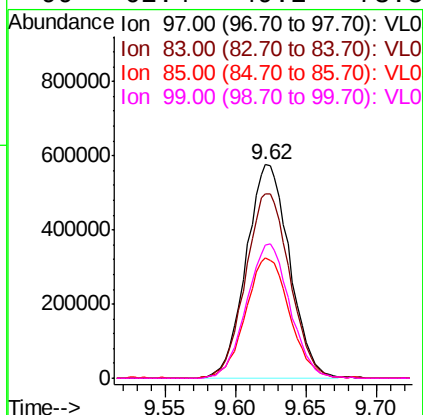
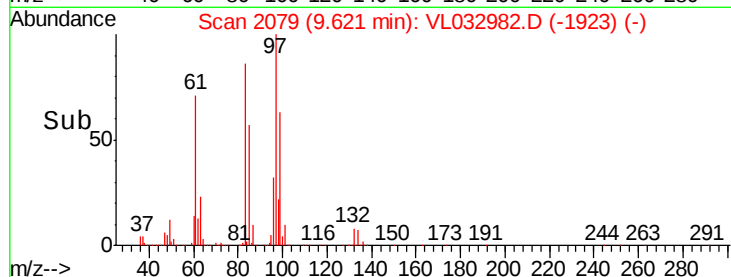
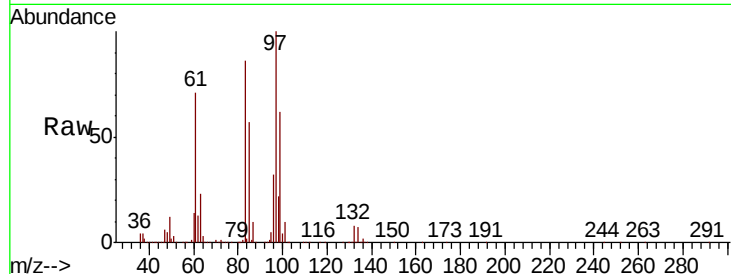
#47
 1,1,2-Trichloroethane
 Concen: 11.198 ppbv
 RT: 9.62 min Scan# 2079
 Delta R.T. 0.00 min
 Lab File: VL032982.D
 Acq: 12 Dec 2018 12:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
97	100		
83	86.4	69.8	104.8
85	56.4	46.7	70.1
99	62.4	49.2	73.8

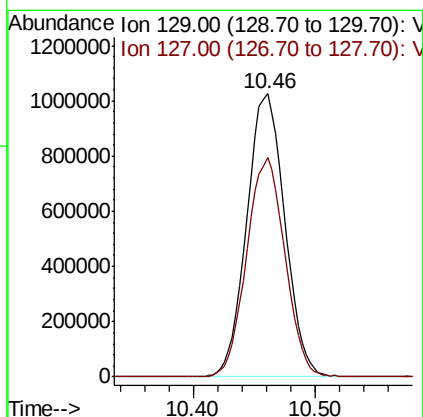
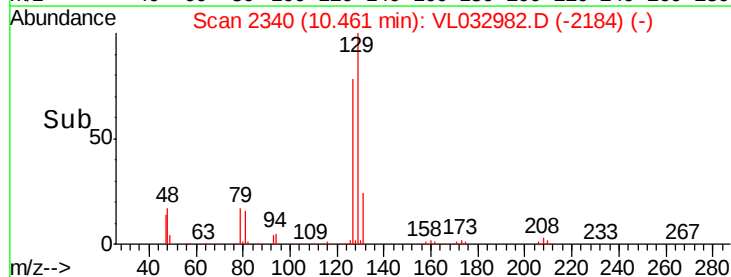
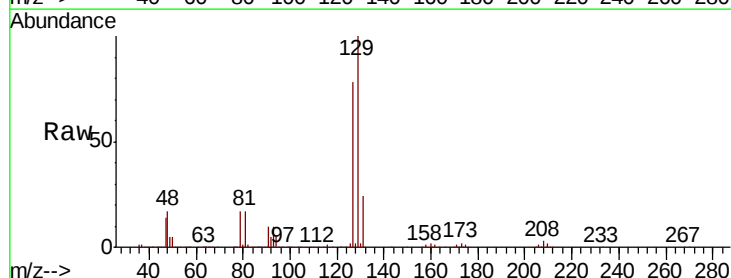
Manual Integrations
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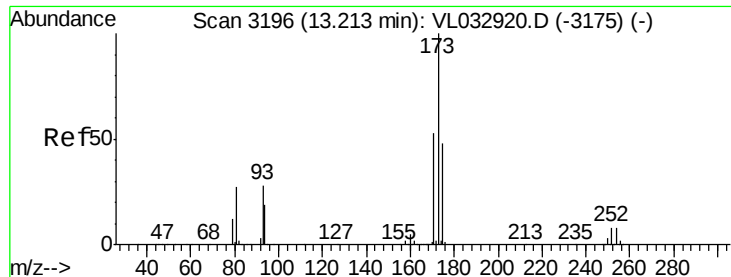
MMDadoda
 12/13/2018 7:58:59 AM



#48
 Dibromochloromethane
 Concen: 10.650 ppbv
 RT: 10.46 min Scan# 2340
 Delta R.T. 0.00 min
 Lab File: VL032982.D
 Acq: 12 Dec 2018 12:14

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.1	39.3	117.8





#49

Bromoform

Concen: 10.689 ppbv

RT: 13.21 min Scan# 3196

Delta R.T. 0.00 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 1824692

Ion Ratio Lower Upper

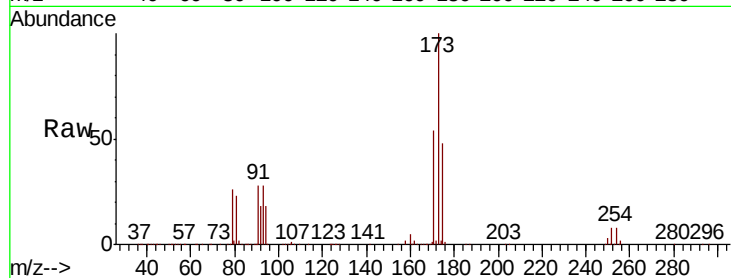
173 100

175 49.3 39.0 58.4

171 52.3 41.5 62.3

Manual Integrations
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MMDadoda
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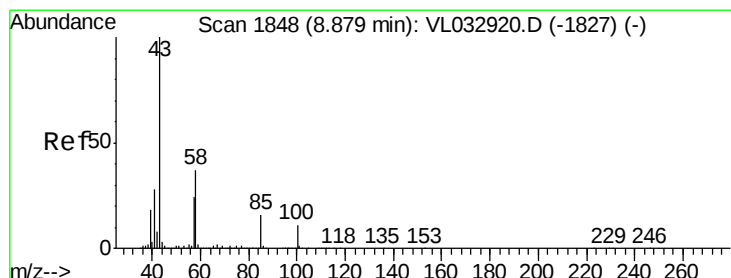
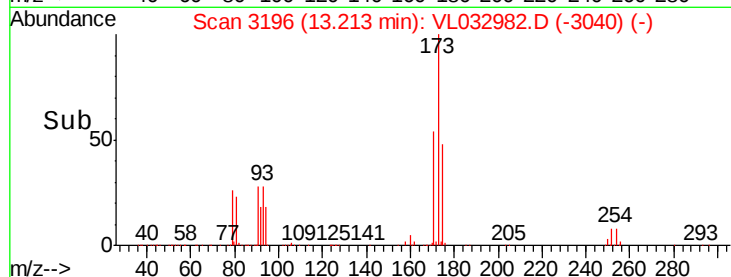
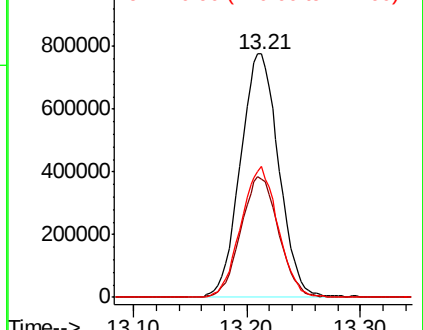


Abundance

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: 11.639 ppbv

RT: 8.88 min Scan# 1848

Delta R.T. 0.00 min

Lab File: VL032982.D

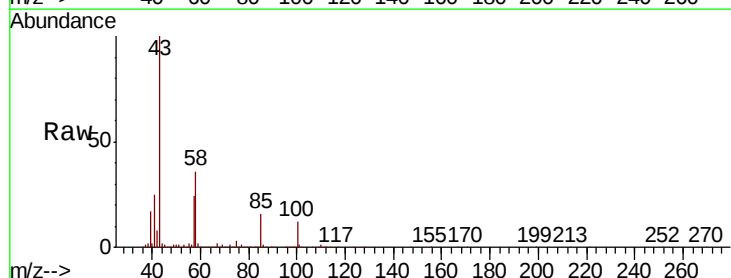
Acq: 12 Dec 2018 12:14

Tgt Ion: 43 Resp: 2921206

Ion Ratio Lower Upper

43 100

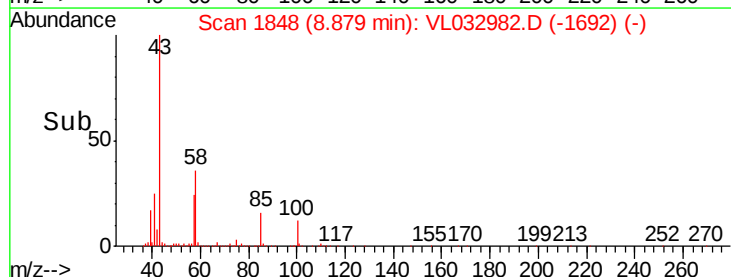
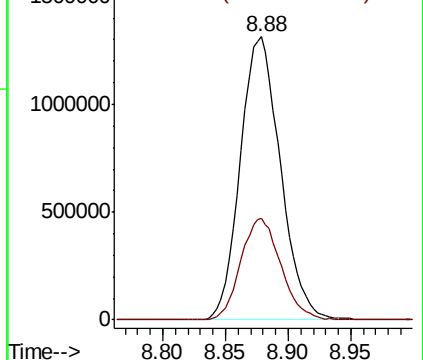
58 36.0 29.0 43.4

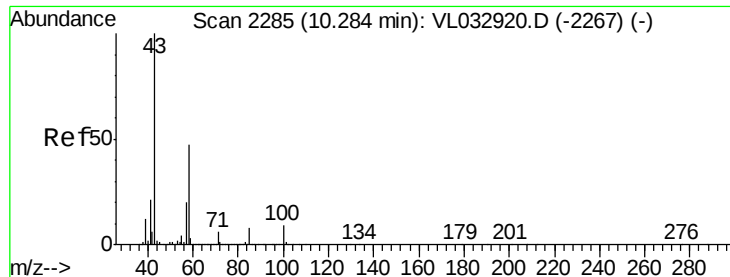


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





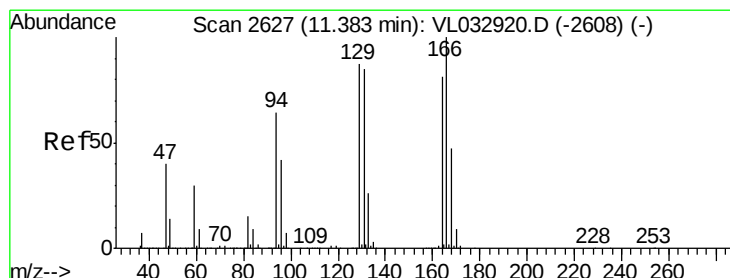
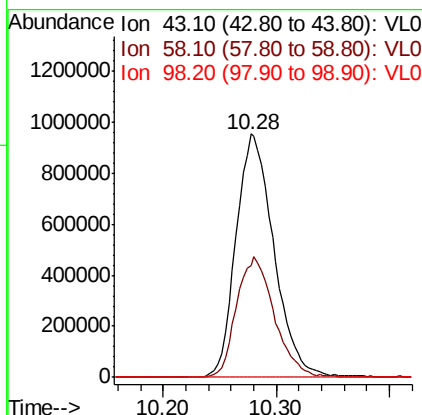
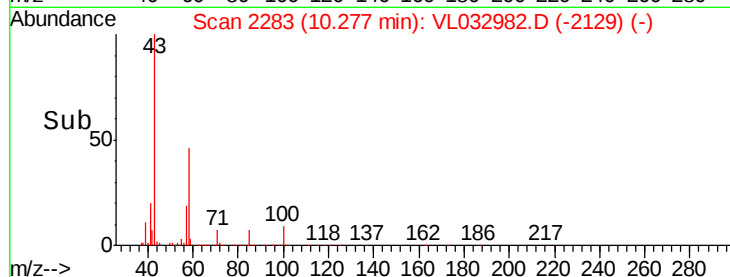
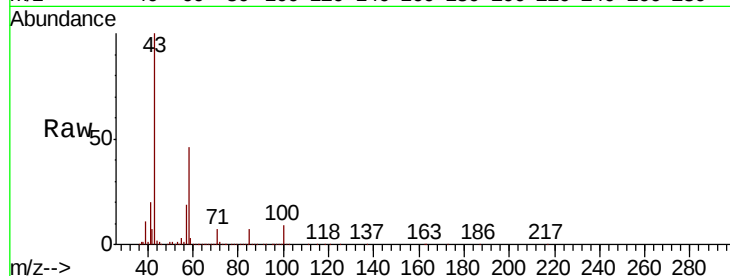
#51
2-Hexanone
Concen: 13.052 ppbv
RT: 10.28 min Scan# 2283
Delta R.T. -0.01 min
Lab File: VL032982.D
Acq: 12 Dec 2018 12:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 2221673
Ion Ratio Lower Upper
43 100
58 49.5 38.1 57.1
98 0.3 0.4 0.6#

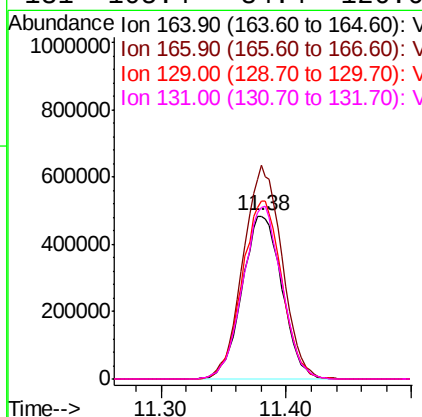
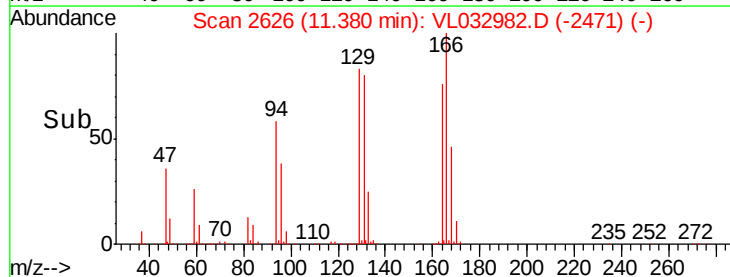
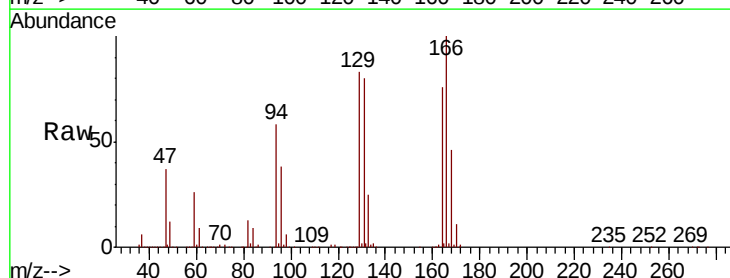
Manual Integrations
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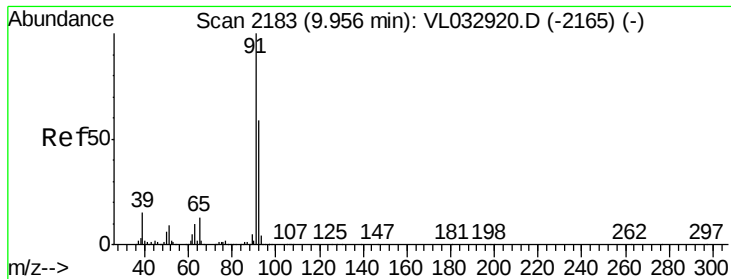
MMDadoda
12/13/2018 7:58:59 AM



#52
Tetrachloroethene
Concen: 11.092 ppbv
RT: 11.38 min Scan# 2626
Delta R.T. -0.00 min
Lab File: VL032982.D
Acq: 12 Dec 2018 12:14

Tgt Ion:164 Resp: 1069338
Ion Ratio Lower Upper
164 100
166 131.2 98.8 148.2
129 109.0 85.5 128.3
131 105.4 84.4 126.6





#53

Toluene

Concen: 12.347 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. 0.00 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3470695

Ion Ratio Lower Upper

91 100

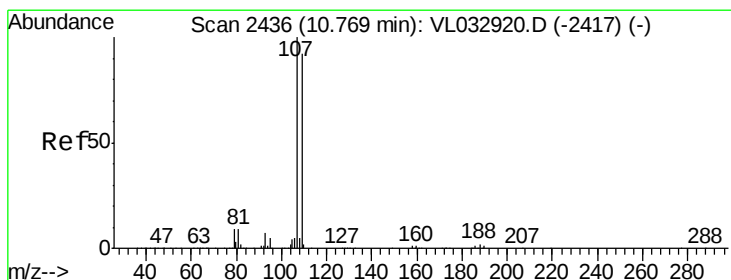
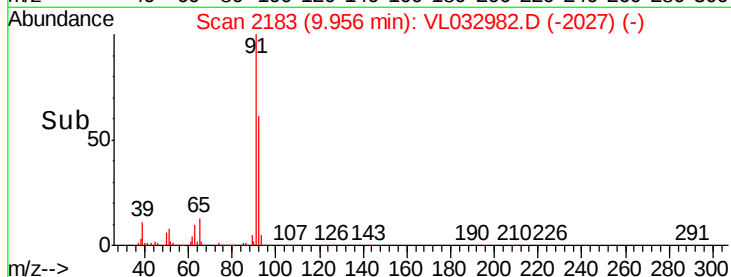
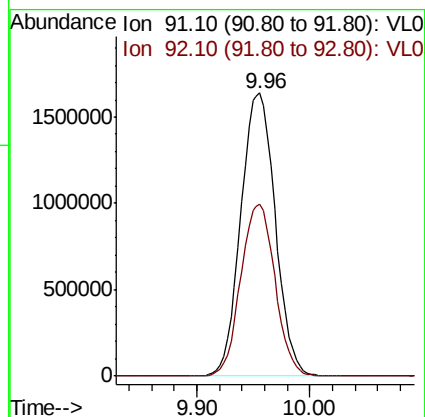
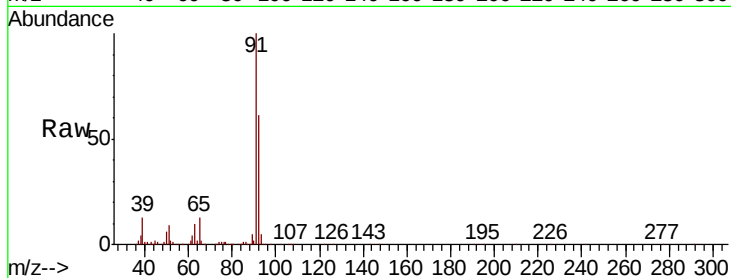
92 60.4 47.4 71.0

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 11.172 ppbv

RT: 10.77 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VL032982.D

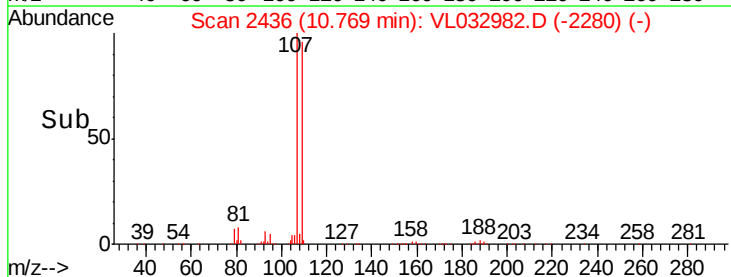
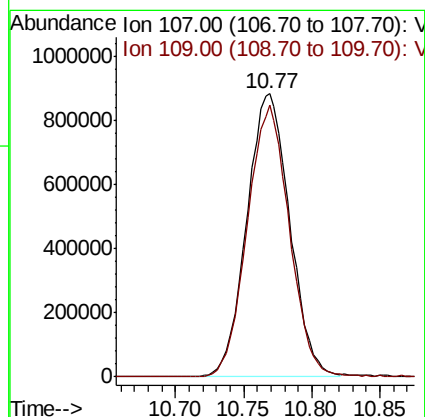
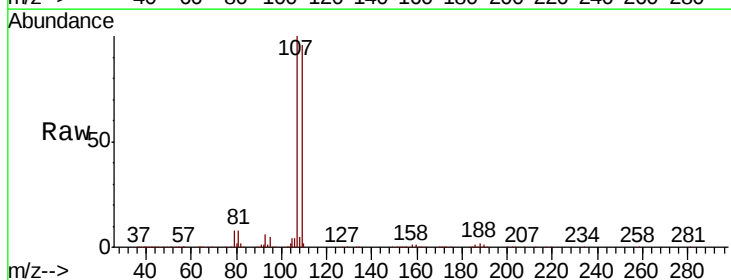
Acq: 12 Dec 2018 12:14

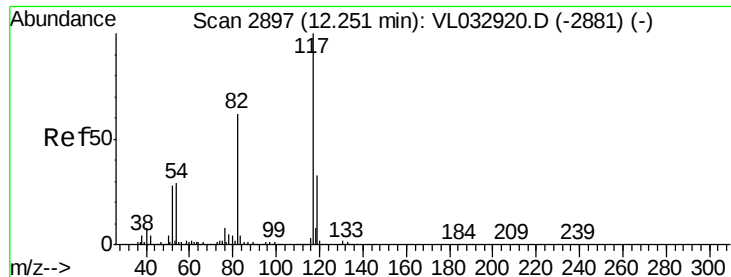
Tgt Ion: 107 Resp: 1930883

Ion Ratio Lower Upper

107 100

109 96.0 73.4 110.2





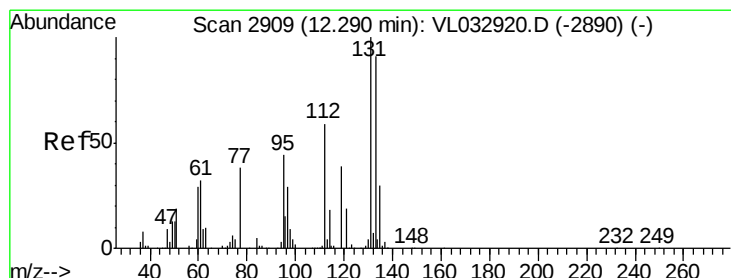
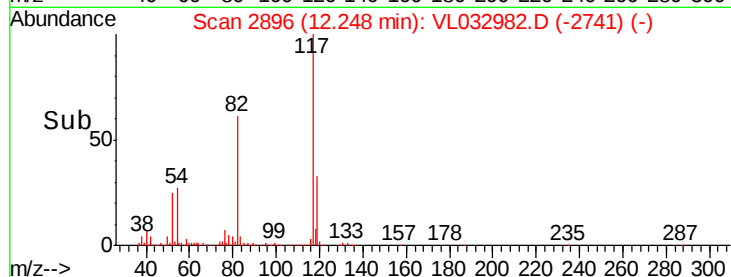
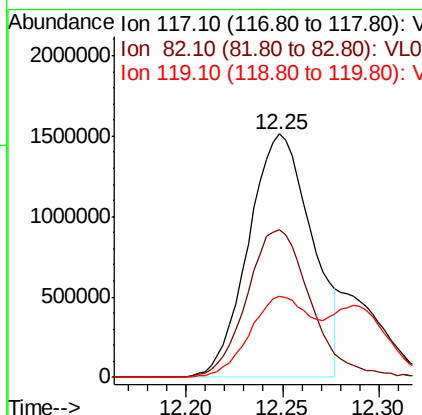
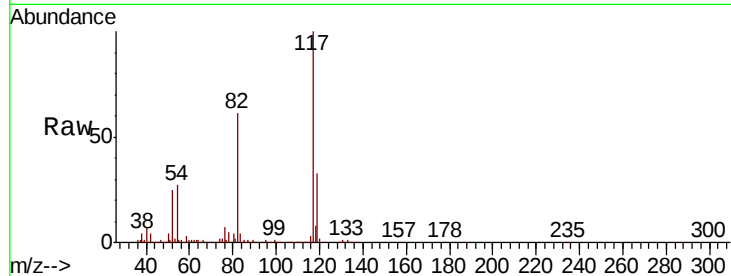
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.25 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VL032982.D
Acq: 12 Dec 2018 12:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 3479986
Ion Ratio Lower Upper
117 100
82 60.9 47.8 71.8
119 32.8 43.1 64.7#

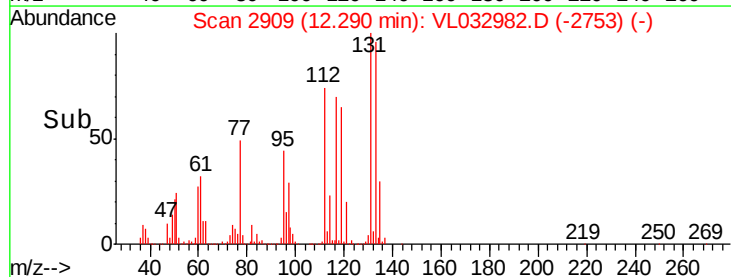
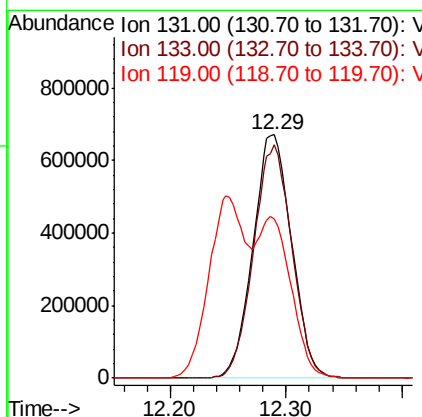
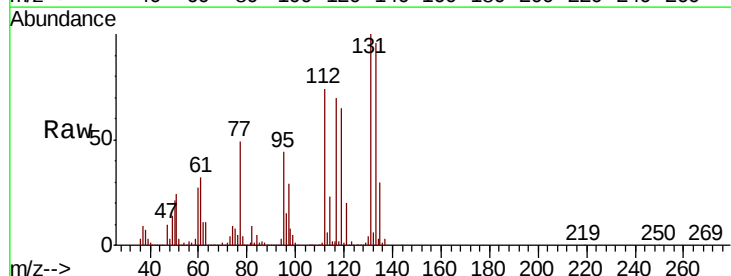
Manual Integrations
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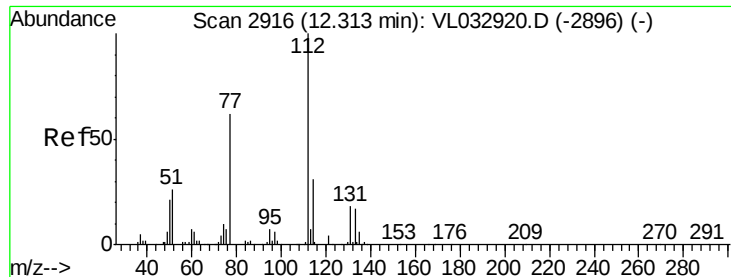
MMDadoda
12/13/2018 7:58:59 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 10.017 ppbv
RT: 12.29 min Scan# 2909
Delta R.T. 0.00 min
Lab File: VL032982.D
Acq: 12 Dec 2018 12:14

Tgt Ion:131 Resp: 1554091
Ion Ratio Lower Upper
131 100
133 95.4 75.1 112.7
119 57.7 47.5 71.3





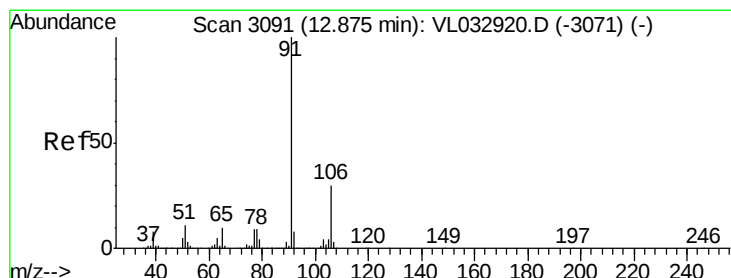
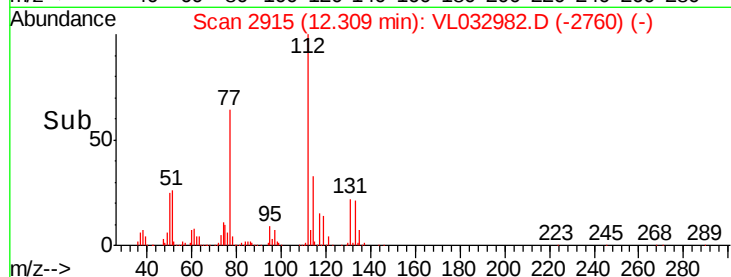
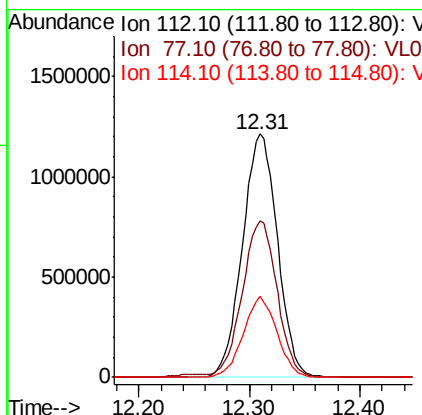
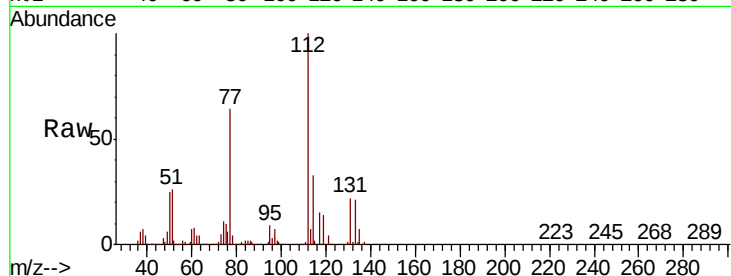
#57
Chlorobenzene
Concen: 10.618 ppbv
RT: 12.31 min Scan# 2915
Delta R.T. -0.00 min
Lab File: VL032982.D
Acq: 12 Dec 2018 12:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
112	100		
77	64.0	51.1	76.7
114	33.2	28.4	34.7

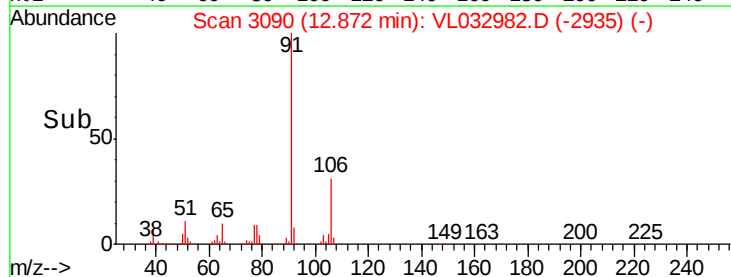
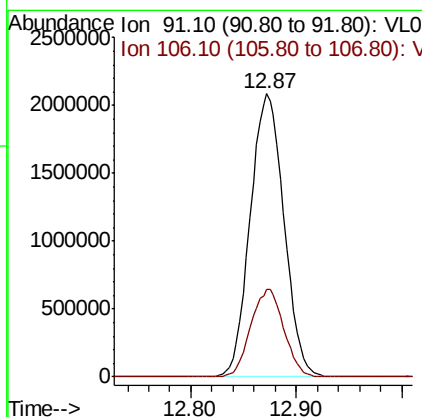
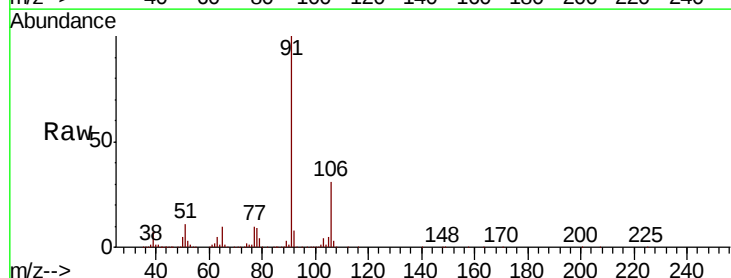
Manual Integrations
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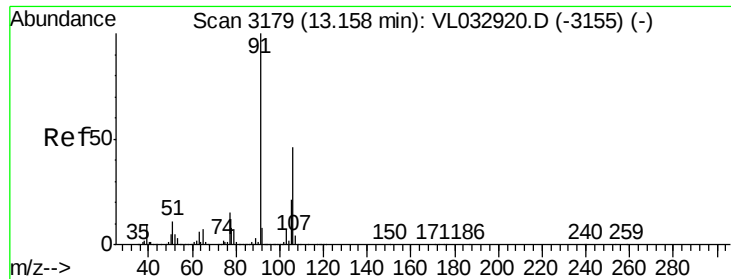
MMDadoda
12/13/2018 7:58:59 AM



#58
Ethyl Benzene
Concen: 12.521 ppbv
RT: 12.87 min Scan# 3090
Delta R.T. -0.00 min
Lab File: VL032982.D
Acq: 12 Dec 2018 12:14

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.8	23.9	35.9





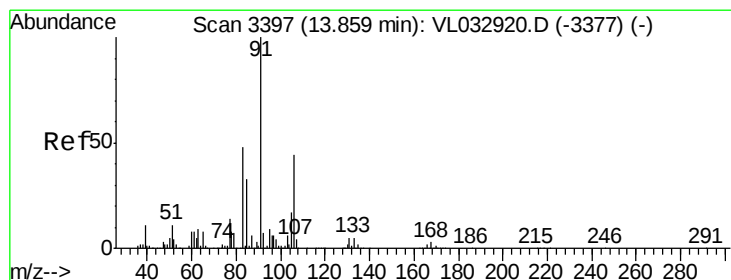
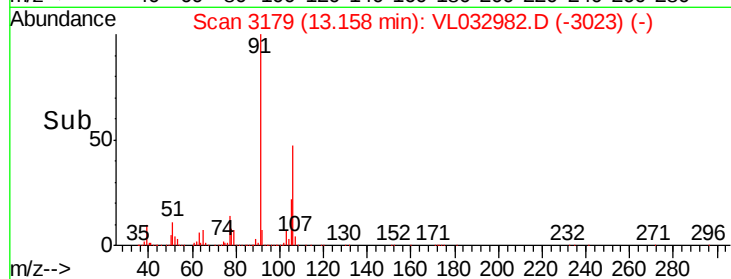
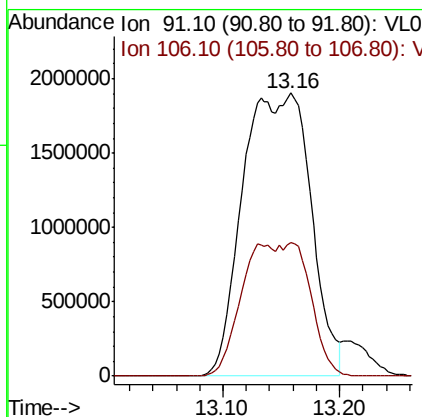
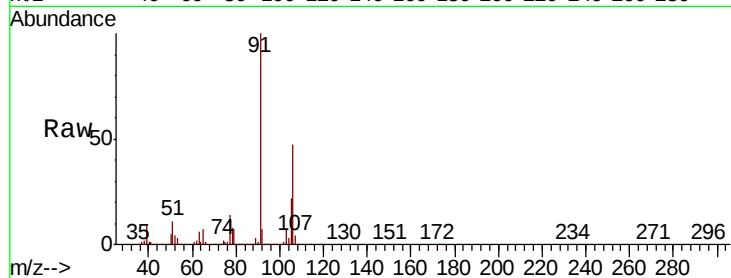
#59
m/p-Xylene
Concen: 22.883 ppbv m
RT: 13.16 min Scan# 3179
Delta R.T. 0.00 min
Lab File: VL032982.D
Acq: 12 Dec 2018 12:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 7701594
Ion Ratio Lower Upper
91 100
106 46.5 0.0 0.0#

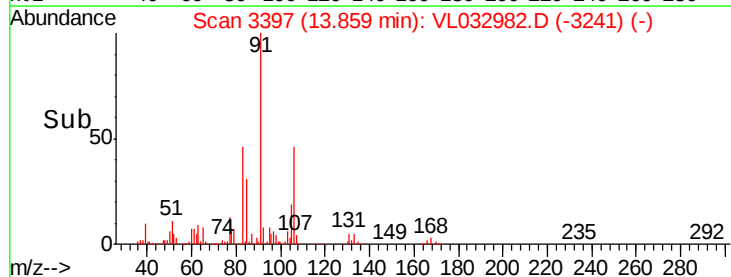
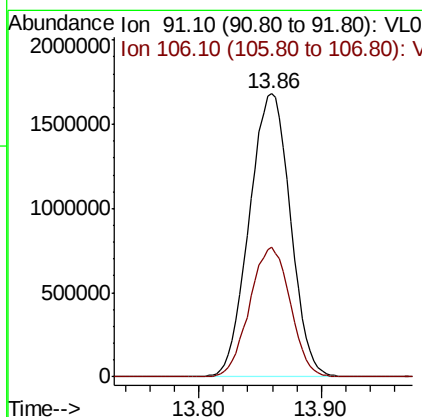
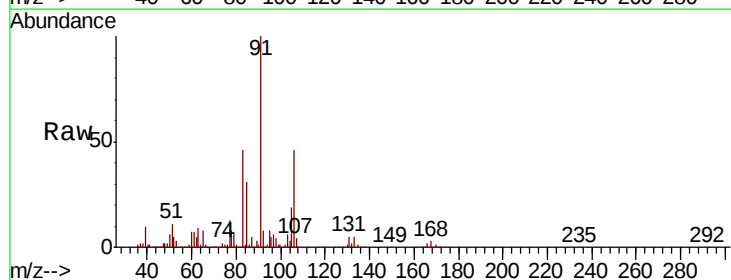
Manual Integrations
APPROVED

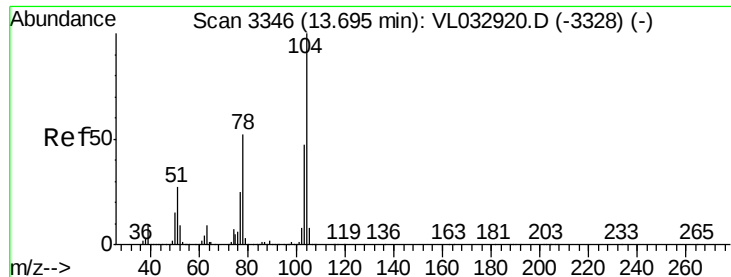
MMDadoda
12/13/2018 7:58:59 AM



#60
o-Xylene
Concen: 11.536 ppbv
RT: 13.86 min Scan# 3397
Delta R.T. 0.00 min
Lab File: VL032982.D
Acq: 12 Dec 2018 12:14

Tgt Ion: 91 Resp: 3921049
Ion Ratio Lower Upper
91 100
106 45.3 21.9 65.8





#61

Stvrene

Concen: 12.849 ppbv

RT: 13.69 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 2905053

Ion Ratio Lower Upper

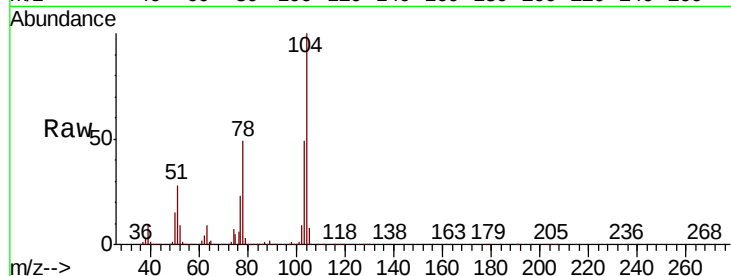
104 100

78 49.6 42.0 63.0

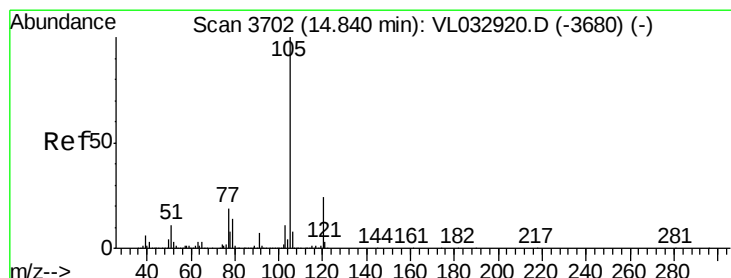
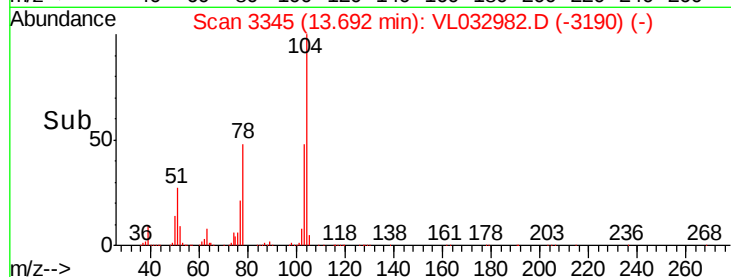
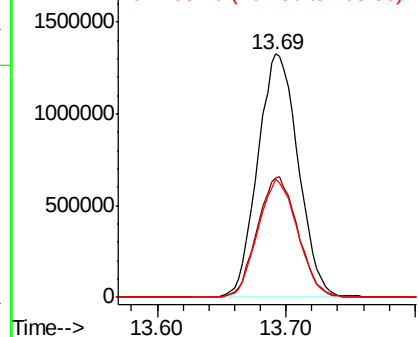
103 47.7 38.3 57.5

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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: 12.014 ppbv

RT: 14.84 min Scan# 3701

Delta R.T. -0.00 min

Lab File: VL032982.D

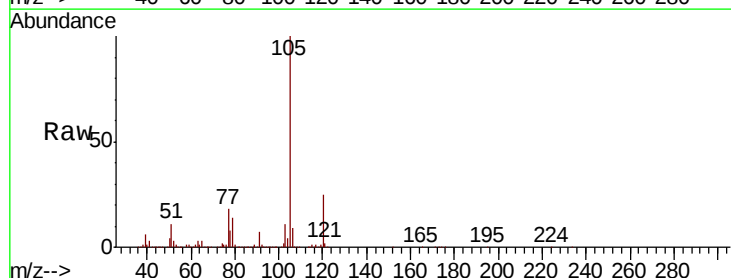
Acq: 12 Dec 2018 12:14

Tgt Ion:105 Resp: 5697330

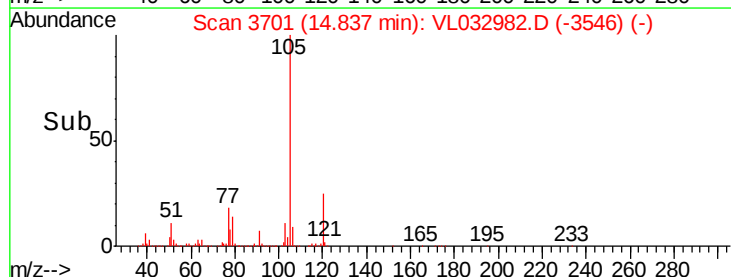
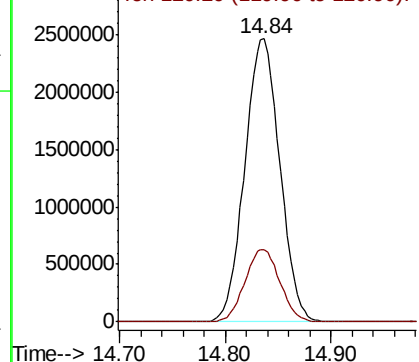
Ion Ratio Lower Upper

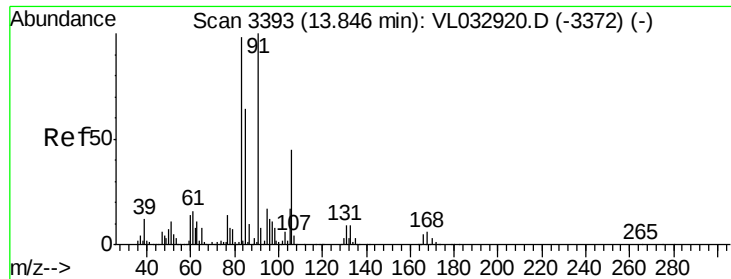
105 100

120 25.6 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V





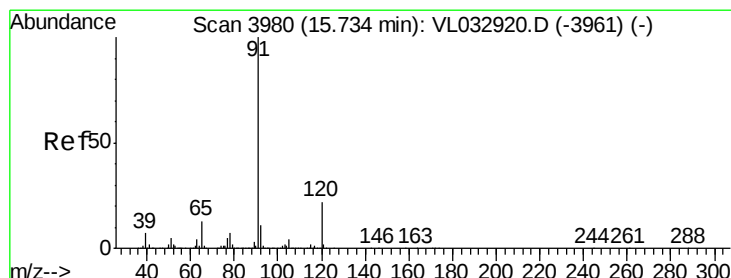
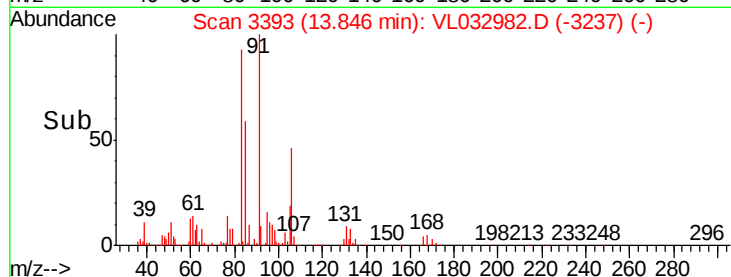
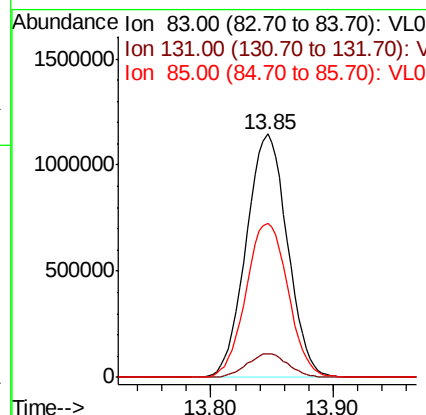
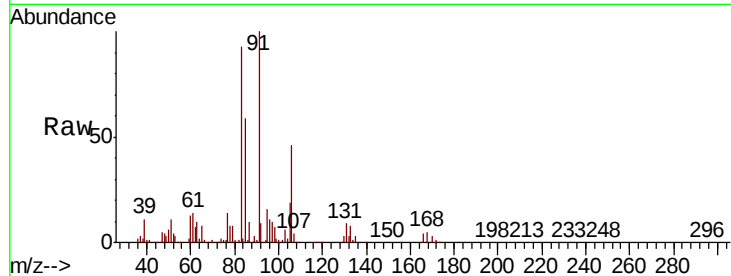
#63
 1,1,2,2-Tetrachloroethane
 Concen: 10.144 ppbv
 RT: 13.85 min Scan# 3393
 Delta R.T. 0.00 min
 Lab File: VL032982.D
 Acq: 12 Dec 2018 12:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	83	Resp	2677154
Ion Ratio	100	Lower	Upper
83	100		
131	9.8	4.9	14.6
85	65.0	32.9	98.6

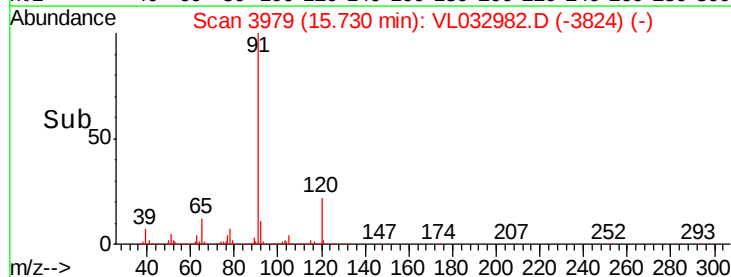
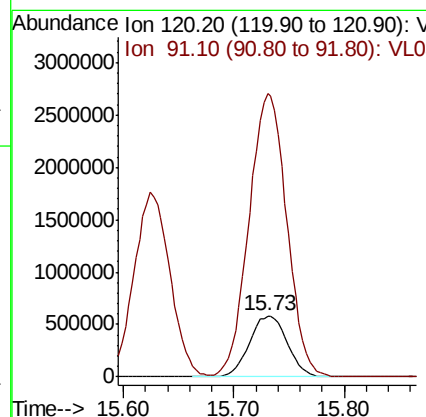
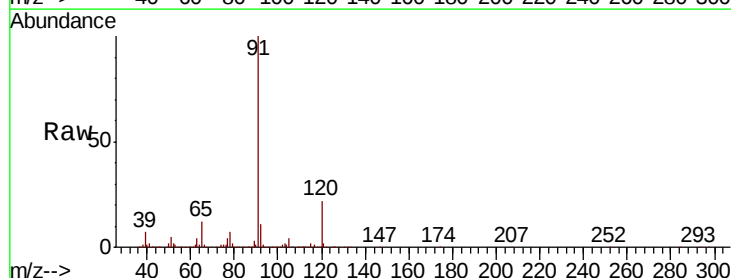
Manual Integrations
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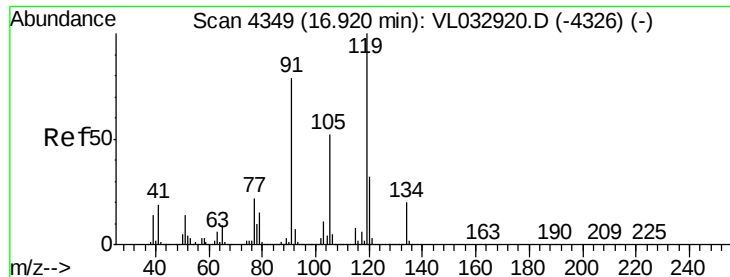
MMDadoda
 12/13/2018 7:58:59 AM



#64
 n-propylbenzene
 Concen: 11.282 ppbv
 RT: 15.73 min Scan# 3979
 Delta R.T. -0.00 min
 Lab File: VL032982.D
 Acq: 12 Dec 2018 12:14

Tgt Ion	120	Resp	1389635
Ion Ratio	100	Lower	Upper
120	100		
91	462.2	380.4	570.6





#65

tert-Butylbenzene

Concen: 10.529 ppbv

RT: 16.92 min Scan# 4349

Delta R.T. 0.00 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 4628881

Ion Ratio Lower Upper

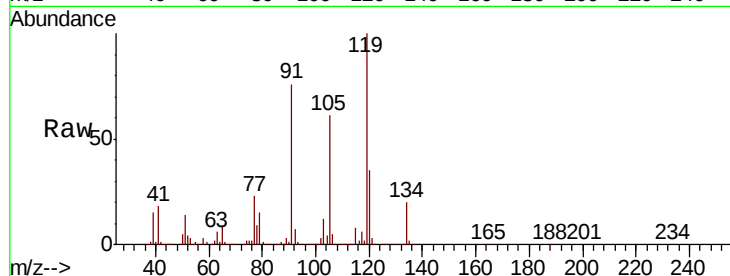
119 100

91 78.0 64.5 96.7

134 20.0 15.7 23.5

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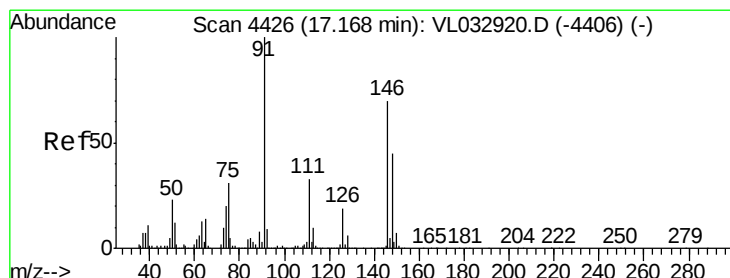
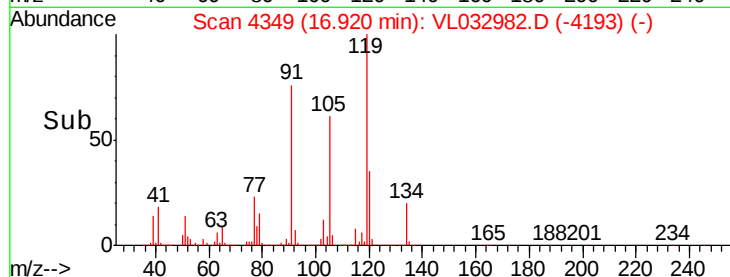
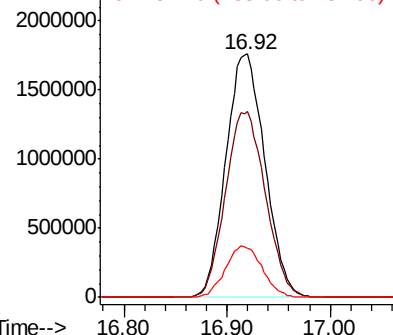
MMDadoda
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 11.361 ppbv

RT: 17.16 min Scan# 4424

Delta R.T. -0.01 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

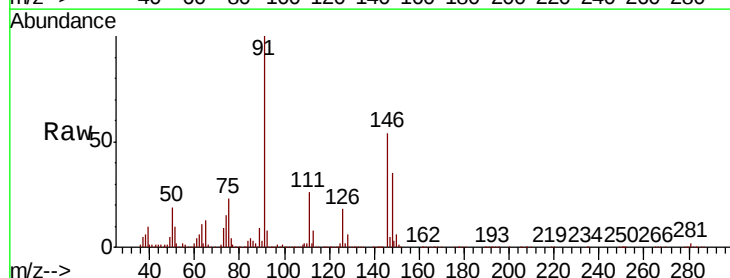
Tgt Ion: 91 Resp: 2768221

Ion Ratio Lower Upper

91 100

126 18.3 14.1 21.1

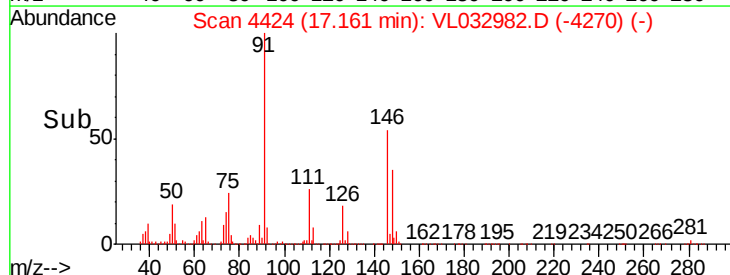
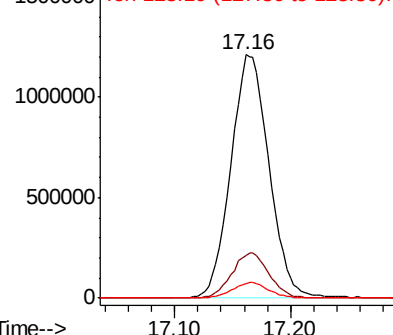
128 6.0 4.5 6.7

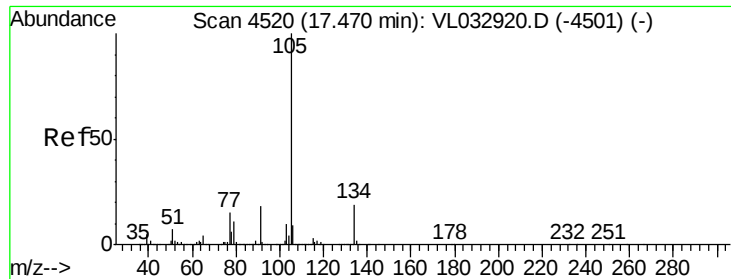


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 10.171 ppbv

RT: 17.47 min Scan# 4519

Delta R.T. -0.00 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 6592346

Ion Ratio Lower Upper

105 100

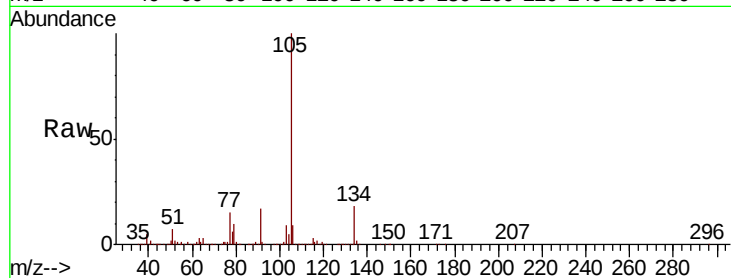
134 18.4 14.6 21.8

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.47

2500000

2000000

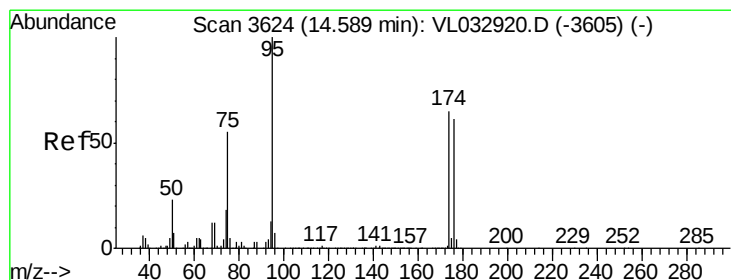
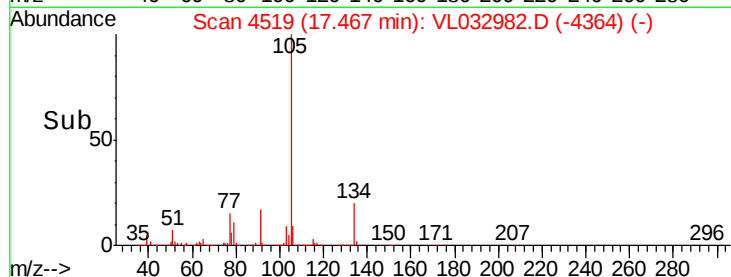
1500000

1000000

500000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.549 ppbv

RT: 14.59 min Scan# 3623

Delta R.T. -0.00 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

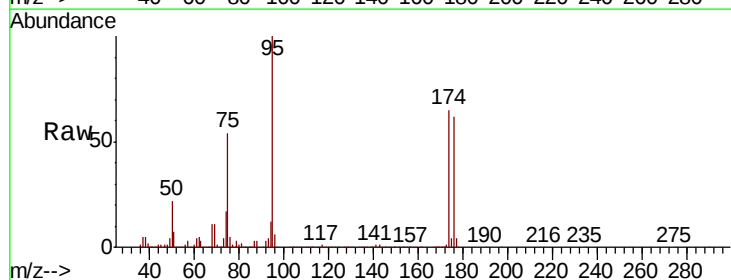
Tgt Ion: 95 Resp: 2455091

Ion Ratio Lower Upper

95 100

174 65.8 51.4 77.0

175 4.9 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

14.59

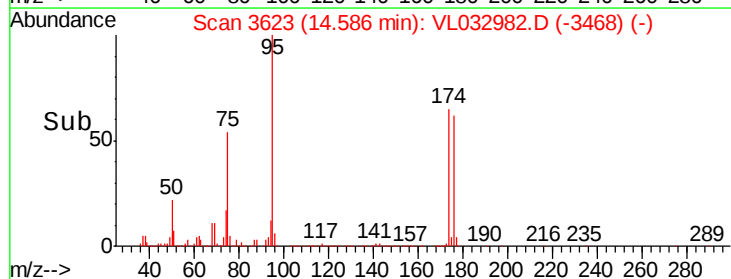
1500000

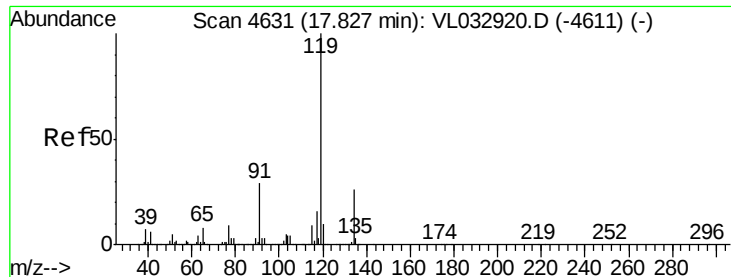
1000000

500000

0

Time-->





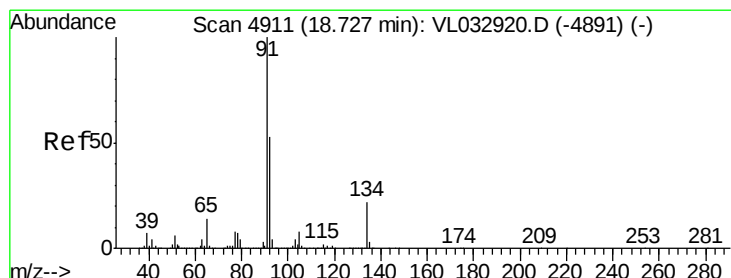
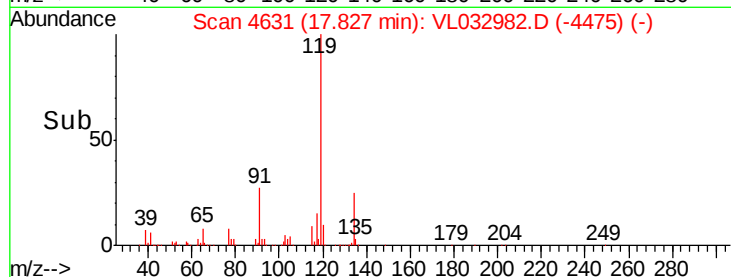
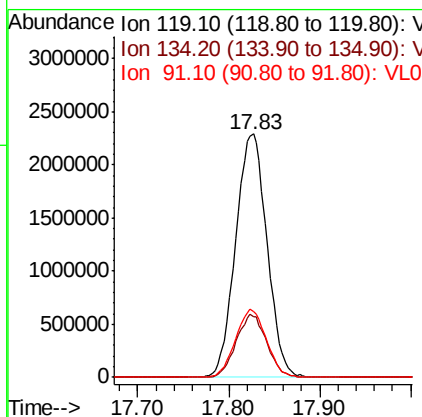
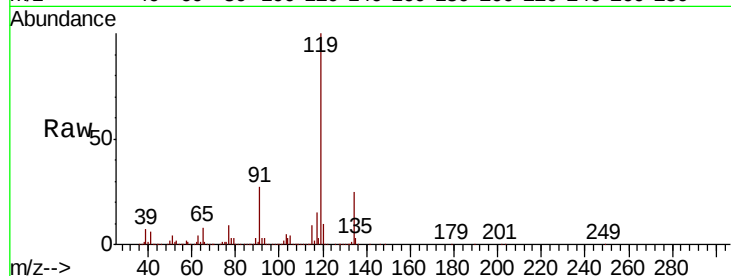
#69
 p-Isopropyltoluene
 Concen: 10.407 ppbv
 RT: 17.83 min Scan# 4631
 Delta R.T. 0.00 min
 Lab File: VL032982.D
 Acq: 12 Dec 2018 12:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.2	30.2
91	27.5	22.9	34.3

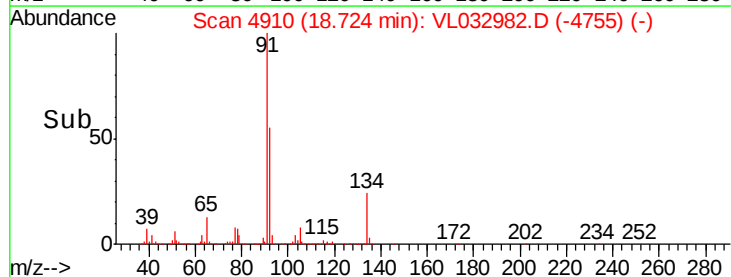
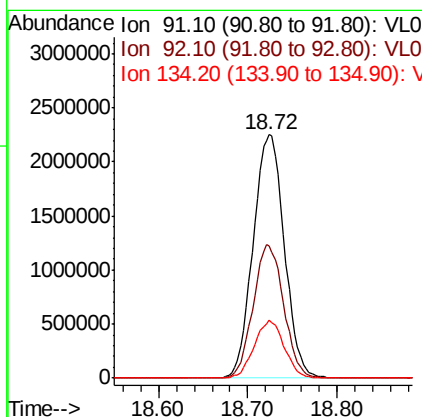
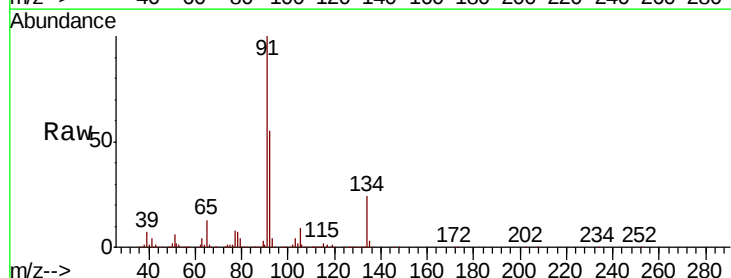
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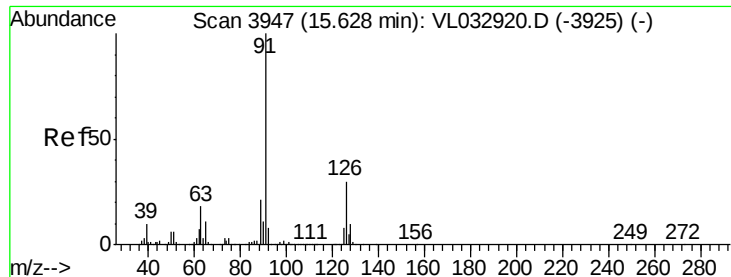
MMDadoda
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#70
 n-Butylbenzene
 Concen: 11.290 ppbv
 RT: 18.72 min Scan# 4910
 Delta R.T. -0.00 min
 Lab File: VL032982.D
 Acq: 12 Dec 2018 12:14

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.9	42.7	64.1
134	22.8	18.0	27.0





#71

2-Chlorotoluene

Concen: 11.293 ppbv

RT: 15.62 min Scan# 3946

Delta R.T. -0.00 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3982436

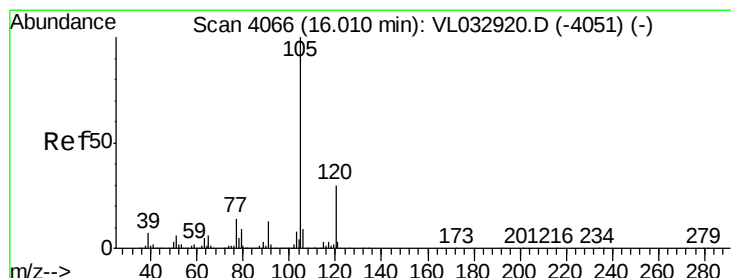
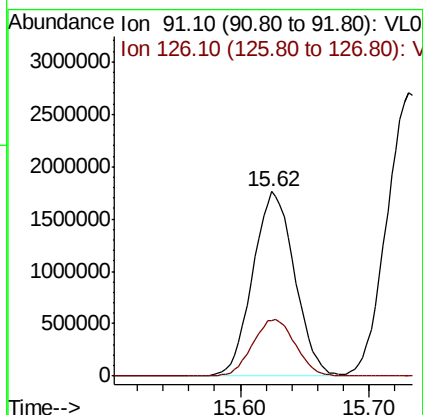
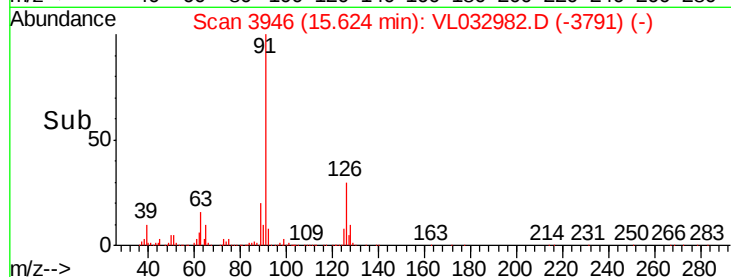
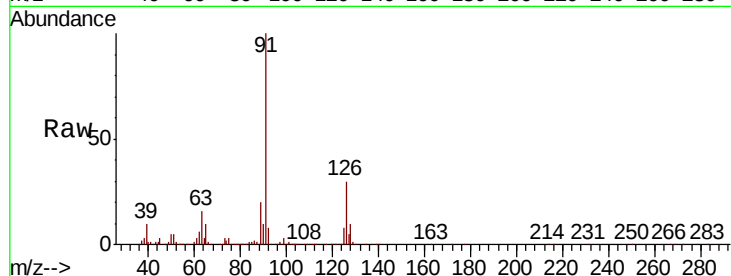
Ion Ratio Lower Upper

91 100

126 31.5 12.3 49.3

Manual Integrations
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#72

4-Ethyltoluene

Concen: 11.608 ppbv

RT: 16.01 min Scan# 4066

Delta R.T. 0.00 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

Tgt Ion: 105 Resp: 4404746

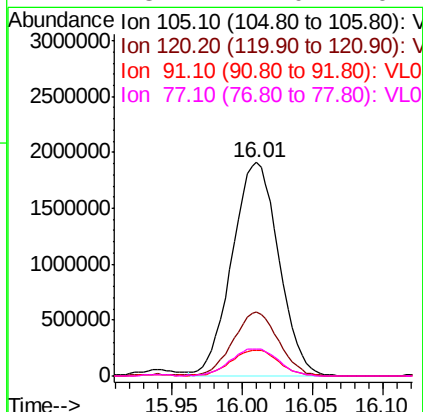
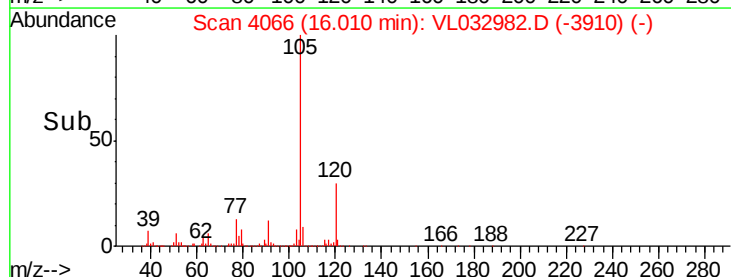
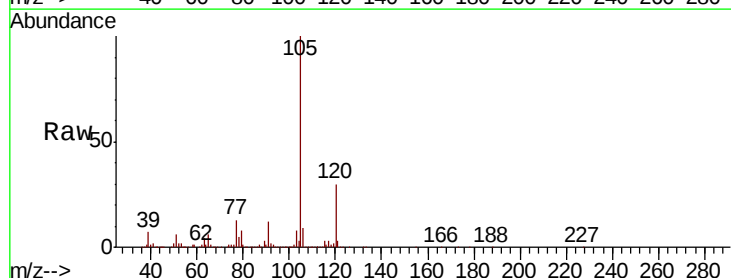
Ion Ratio Lower Upper

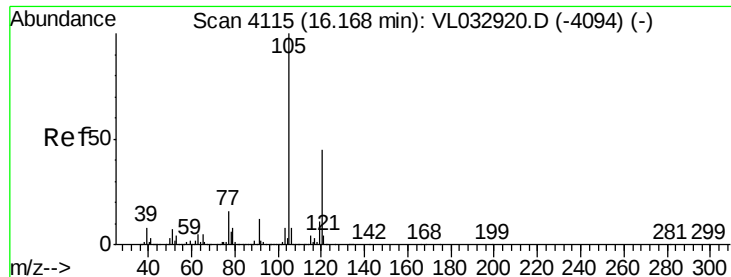
105 100

120 29.4 23.0 34.4

91 12.4 10.4 15.6

77 13.2 11.0 16.4





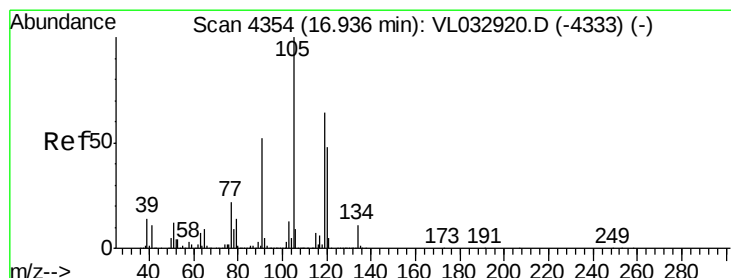
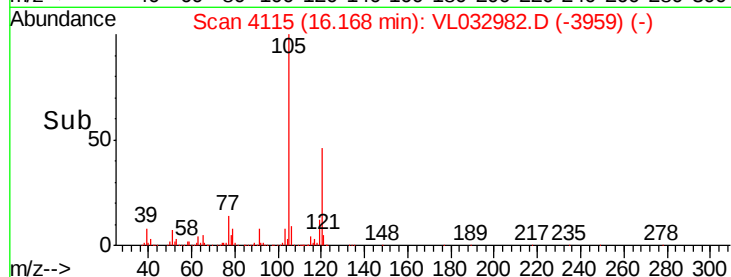
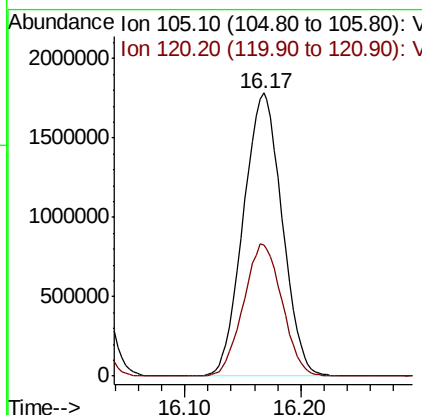
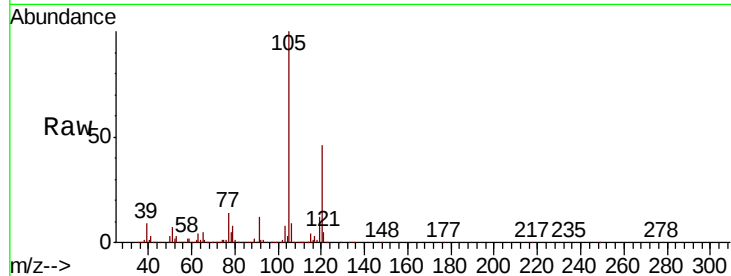
#73
 1,3,5-Trimethylbenzene
 Concen: 11.174 ppbv
 RT: 16.17 min Scan# 4115
 Delta R.T. 0.00 min
 Lab File: VL032982.D
 Acq: 12 Dec 2018 12:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:105 Resp: 4139408
 Ion Ratio Lower Upper
 105 100
 120 46.3 36.0 54.0

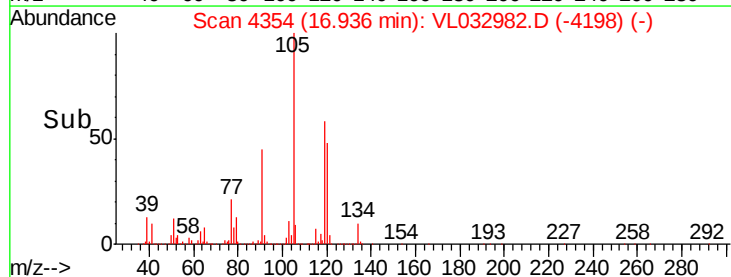
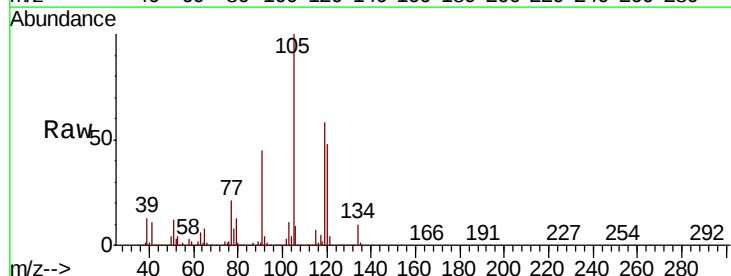
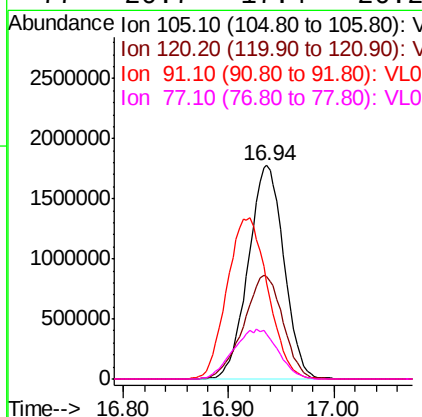
Manual Integrations
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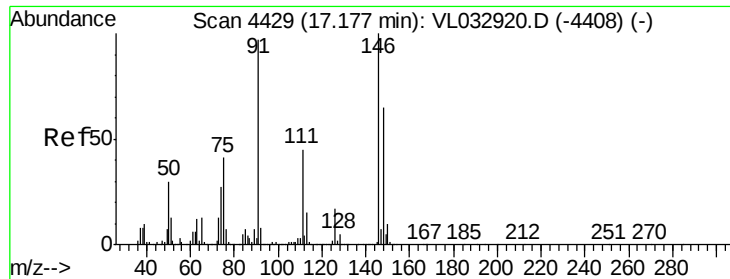
MMDadoda
 12/13/2018 7:58:59 AM



#74
 1,2,4-Trimethylbenzene
 Concen: 9.988 ppbv
 RT: 16.94 min Scan# 4354
 Delta R.T. 0.00 min
 Lab File: VL032982.D
 Acq: 12 Dec 2018 12:14

Tgt Ion:105 Resp: 4178053
 Ion Ratio Lower Upper
 105 100
 120 47.7 38.6 58.0
 91 44.6 41.7 62.5
 77 20.7 17.4 26.2





#75

1,3-Dichlorobenzene

Concen: 9.529 ppbv

RT: 17.17 min Scan# 4428

Delta R.T. -0.00 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 2347201

Ion Ratio Lower Upper

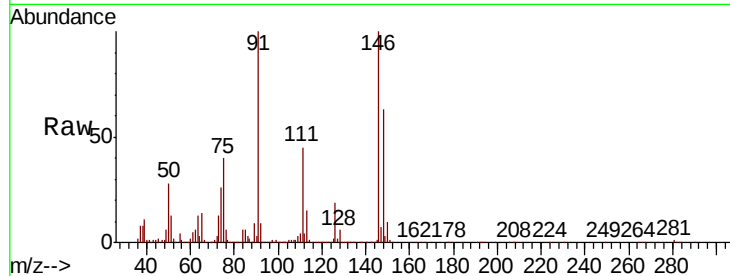
146 100

111 46.1 23.6 70.8

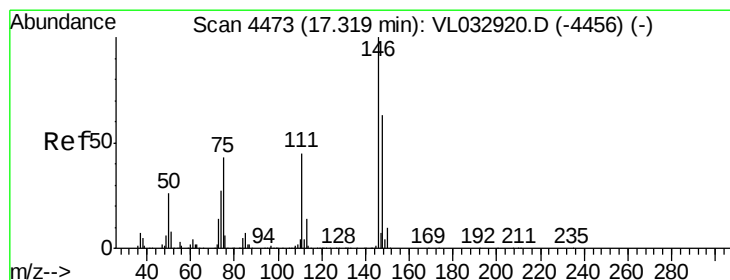
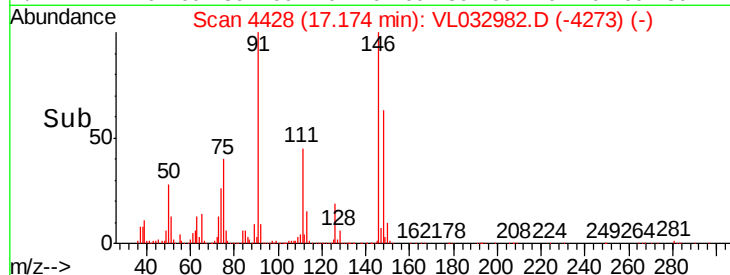
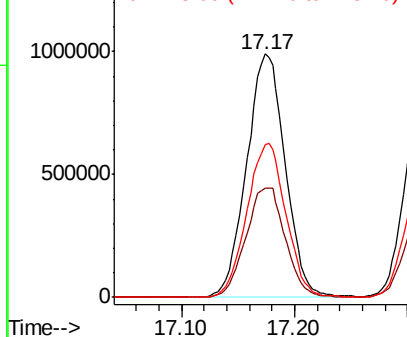
148 64.0 32.1 96.3

Manual Integrations
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MMDadoda
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 10.224 ppbv

RT: 17.32 min Scan# 4472

Delta R.T. -0.00 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

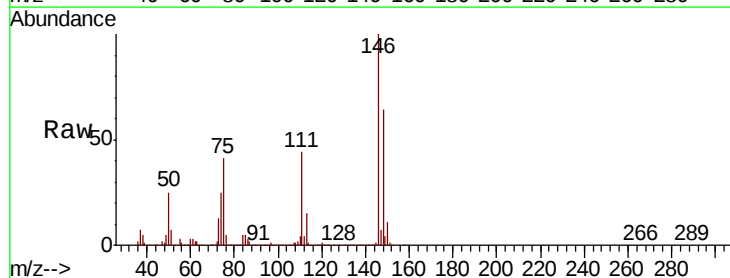
Tgt Ion:146 Resp: 2350054

Ion Ratio Lower Upper

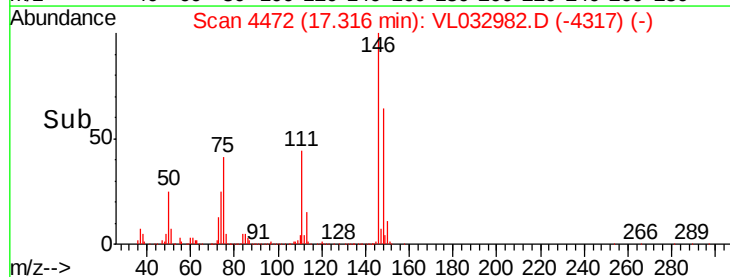
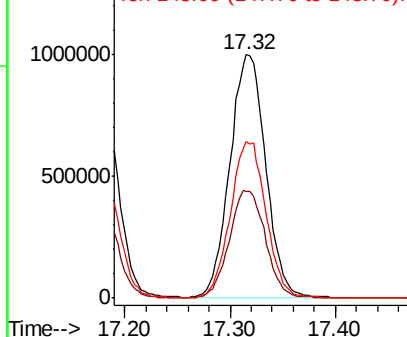
146 100

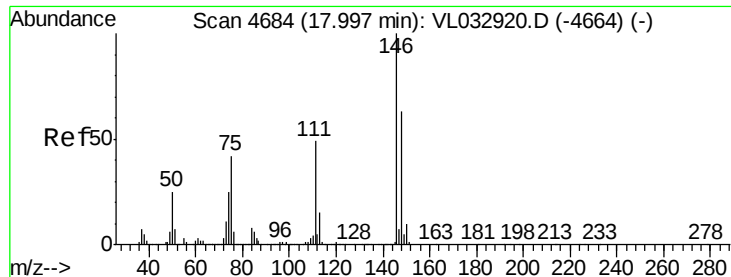
111 44.8 22.8 68.4

148 64.2 32.0 96.2



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V





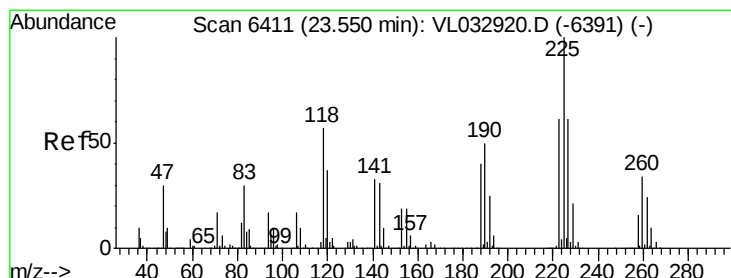
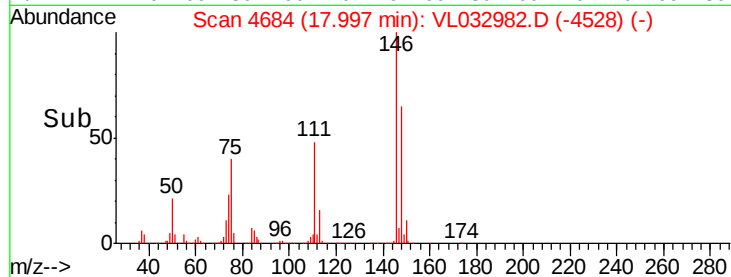
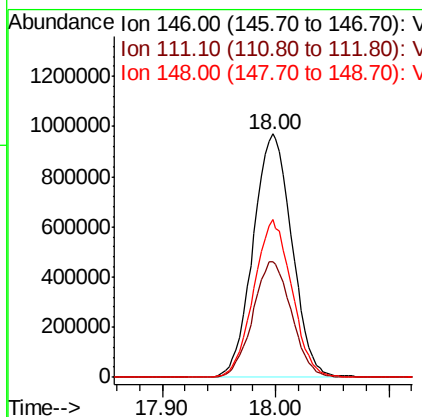
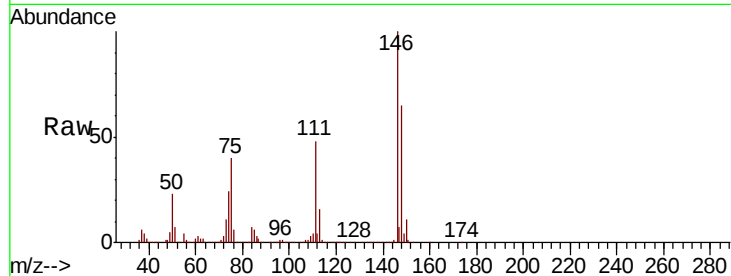
#77
 1,2-Dichlorobenzene
 Concen: 10.011 ppbv
 RT: 18.00 min Scan# 4684
 Delta R.T. 0.00 min
 Lab File: VL032982.D
 Acq: 12 Dec 2018 12:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.5	24.3	72.9
148	63.8	32.0	96.2

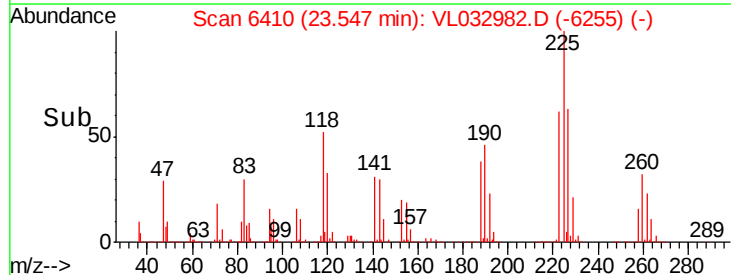
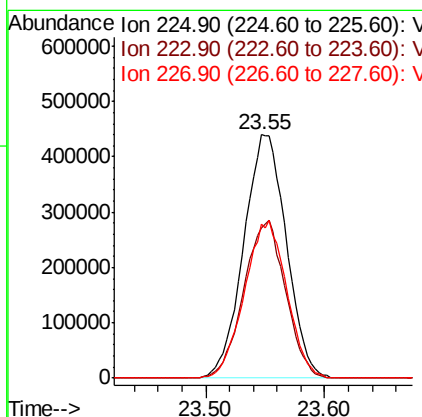
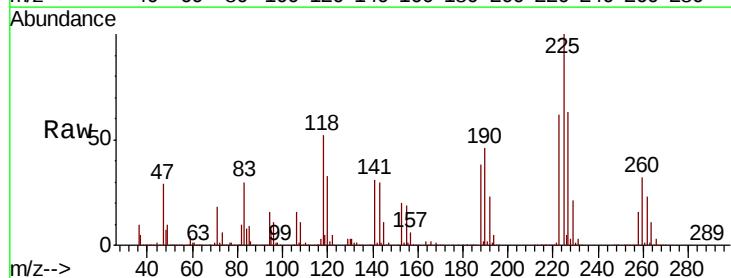
Manual Integrations
 APPROVED

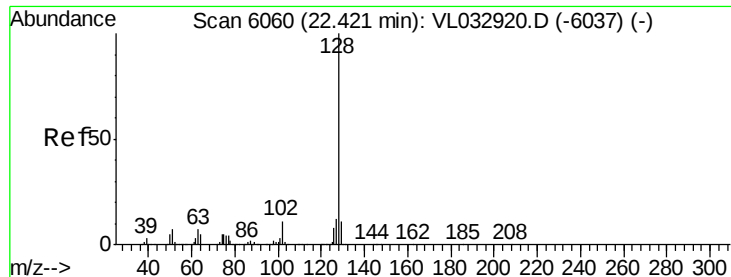
MMDadoda
 12/13/2018 7:58:59 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.637 ppbv
 RT: 23.55 min Scan# 6410
 Delta R.T. -0.00 min
 Lab File: VL032982.D
 Acq: 12 Dec 2018 12:14

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.4	50.6	75.8
227	63.9	50.4	75.6





#79

Naphthalene

Concen: 14.130 ppbv

RT: 22.42 min Scan# 6059

Delta R.T. -0.00 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

Instrument :

MSVOA_L

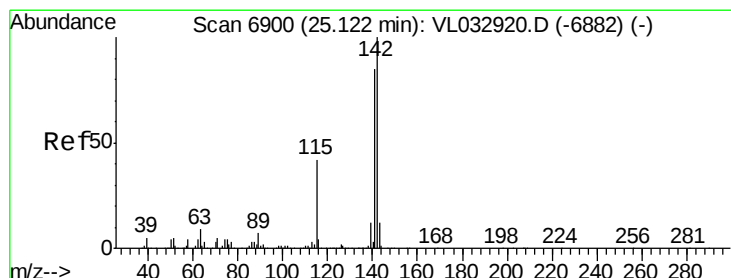
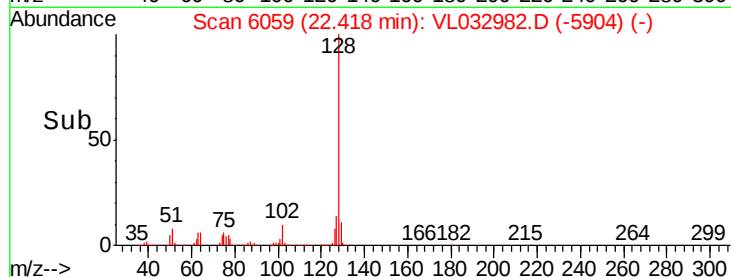
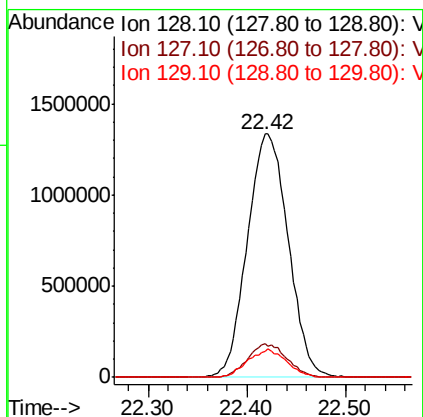
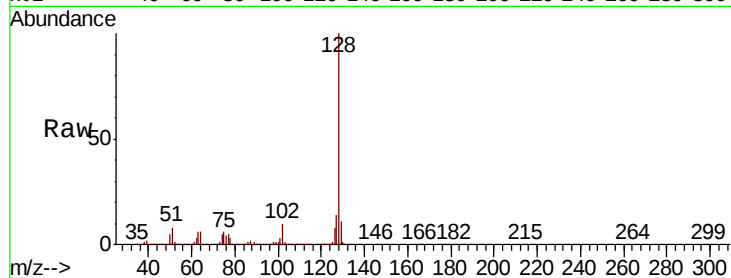
ClientSampleId :

VSTDCCC010EC

Tot Ion:	128	Resp:	3816396
Ion	Ratio	Lower	Upper
128	100		
127	13.5	9.9	14.9
129	10.6	8.6	13.0

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#80

Naphthalene, 2-methyl-

Concen: 24.349 ppbv

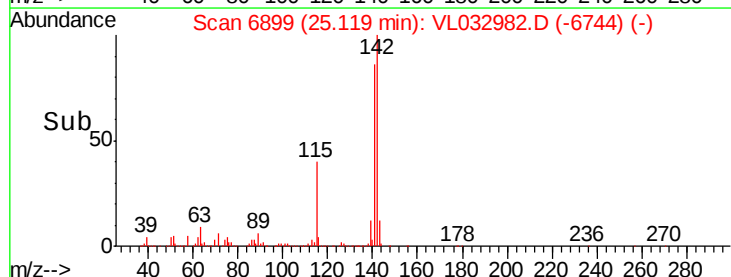
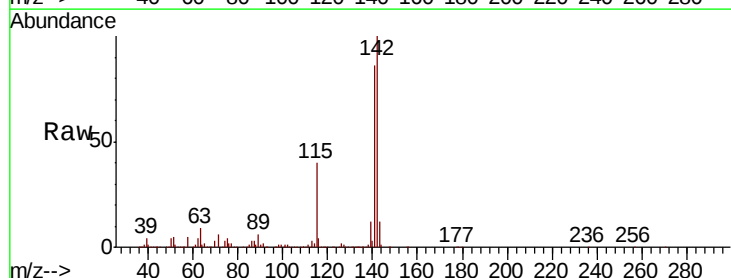
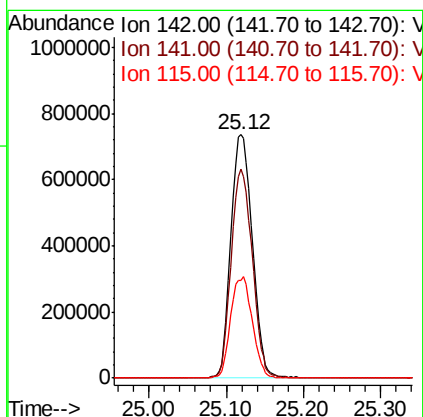
RT: 25.12 min Scan# 6899

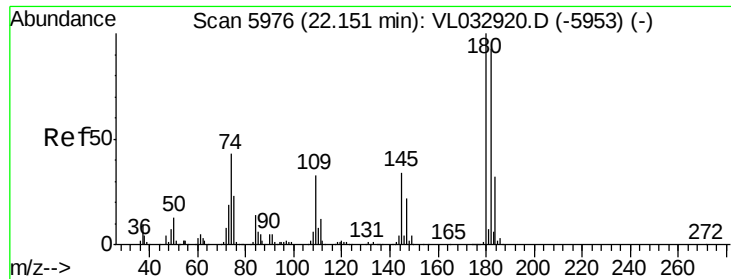
Delta R.T. -0.00 min

Lab File: VL032982.D

Acq: 12 Dec 2018 12:14

Tgt Ion:	142	Resp:	1405126
Ion	Ratio	Lower	Upper
142	100		
141	84.7	68.2	102.2
115	41.7	35.1	52.7





#81
 1,2,4-Trichlorobenzene
 Concen: 12.311 ppbv
 RT: 22.14 min Scan# 5974
 Delta R.T. -0.01 min
 Lab File: VL032982.D
 Acq: 12 Dec 2018 12:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.0	77.0	115.6
184	29.9	24.3	36.5

Manual Integrations
 APPROVED

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 12/13/2018 7:58:59 AM

