

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090519\
 Data File : VL034126.D
 Acq On : 5 Sep 2019 6:26
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:15:48 AM

Quant Time: Sep 05 10:18:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 05 10:18:43 2019
 QLast Update : Thu Sep 05 09:42:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1100336	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	2162395	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2402985	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	1870998	9.52	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	2404494	13.248	ppbv	95
3) Chlorodifluoromethane	2.98	51	1672094	13.633	ppbv	99
4) Chloromethane	3.14	50	1084145	14.139	ppbv	97
5) Vinyl Chloride	3.26	62	952424	13.636	ppbv	96
6) Bromomethane	3.47	94	482934	14.010	ppbv	95
7) Chloroethane	3.56	64	341198	14.338	ppbv	95
8) Dichlorotetrafluoroethane	3.18	85	1865933	12.773	ppbv	99
9) Propene	3.00	41	933536	13.603	ppbv	98
10) Heptane	8.19	43	2400918	13.481	ppbv	98
11) Trichlorofluoromethane	3.96	101	1967198	13.291	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.51	101	1339354	13.526	ppbv	98
13) Ethanol	3.61	45	159429	10.267	ppbv	96
14) Bromoethene	3.75	108	598551	13.981	ppbv	99
15) Acetone	3.86	43	1709408	12.890	ppbv	99
16) 1,3-Butadiene	3.33	39	946219	14.089	ppbv	100
17) tert-Butyl alcohol	4.32	59	1143093	11.874	ppbv	98
18) 1,1-Dichloroethene	4.31	96	643599	14.245	ppbv	97
19) Isopropyl Alcohol	3.98	45	1046006	11.722	ppbv	100
20) Methylene Chloride	4.36	84	575740	13.131	ppbv	98
21) Allyl Chloride	4.43	41	1261225	14.426	ppbv	99
22) trans-1,2-Dichloroethene	4.91	96	653710	14.436	ppbv	99
23) Vinyl Acetate	5.11	43	3102052	13.788	ppbv	99
24) 1,1-Dichloroethane	5.04	63	1992106	13.341	ppbv	100
25) Ethyl Acetate	5.72	43	3613313	12.421	ppbv	99
26) Hexane	5.73	57	1589596	12.282	ppbv	96
27) Carbon Disulfide	4.57	76	1728386	14.835	ppbv	99
28) Methyl tert-Butyl Ether	5.07	73	2505849	13.215	ppbv	99
29) Chloroform	5.80	83	2334335	13.372	ppbv	96
30) Cyclohexane	7.19	84	1312817	14.031	ppbv	98
31) cis-1,2-Dichloroethene	5.59	61	1724514	13.914	ppbv	97
32) 1,1,1-Trichloroethane	6.57	97	2227209	13.584	ppbv	98
34) 2-Butanone	5.28	43	2647338	12.735	ppbv	99
35) Carbon Tetrachloride	7.08	117	2140305	12.802	ppbv	98
36) Benzene	6.95	78	3090620	12.504	ppbv	98
37) 1,2-Dichloroethane	6.36	62	1995262	13.175	ppbv	100
38) Trichloroethene	7.90	130	1011900	11.070	ppbv	96
39) 1,2-Dichloropropane	7.68	63	1379980	13.039	ppbv	97
40) 1,4-Dioxane	7.89	88	414588	10.621	ppbv	# 99
41) Tetrahydrofuran	6.09	42	1677345	13.515	ppbv	99
42) Bromodichloromethane	7.86	83	2593009	13.121	ppbv	98
43) Methyl Methacrylate	8.08	69	1386891	13.620	ppbv	99

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Manual Integrations
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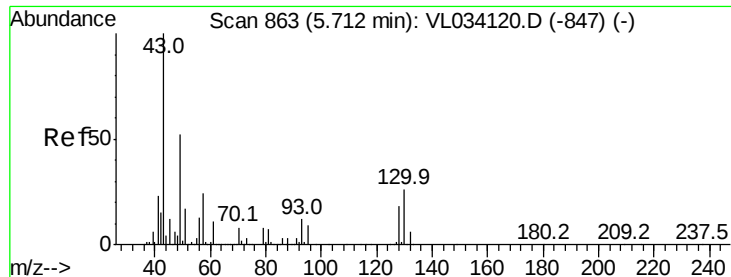
MMDadoda
 9/12/2019 5:15:48 AM

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 0
 QLast Update : Thu Sep 05 09:42:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.94	57	5170134	11.346	ppbv	97
45) t-1,3-Dichloropropene	9.36	75	1835425	15.357	ppbv	96
46) cis-1,3-Dichloropropene	8.78	75	2042096	14.025	ppbv	97
47) 1,1,2-Trichloroethane	9.56	97	1252989	13.016	ppbv	99
48) Dibromochloromethane	10.39	129	1988083	13.826	ppbv	98
49) Bromoform	13.14	173	1754367	13.935	ppbv	100
50) 4-Methyl-2-Pentanone	8.81	43	3787011	11.938	ppbv	98
51) 2-Hexanone	10.21	43	3375636	12.435	ppbv #	100
52) Tetrachloroethene	11.31	164	995678	11.511	ppbv	98
53) Toluene	9.89	91	3415350	12.494	ppbv	99
54) 1,2-Dibromoethane	10.70	107	1864208	13.023	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.22	131	1270193	12.324	ppbv #	62
57) Chlorobenzene	12.25	112	2380923	11.518	ppbv	99
58) Ethyl Benzene	12.80	91	4488761	11.404	ppbv	95
59) m/p-Xylene	13.09	91	7249077m	22.608	ppbv	
60) o-Xylene	13.79	91	3564015	11.132	ppbv	99
61) Styrene	13.63	104	2923205	12.219	ppbv	99
62) Isopropylbenzene	14.77	105	4603898	11.056	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.78	83	2588223	9.883	ppbv	99
64) n-propylbenzene	15.66	120	1275313	12.047	ppbv	90
65) tert-Butylbenzene	16.85	119	3858750	10.758	ppbv	99
66) Benzyl Chloride	17.10	91	2181295	16.504	ppbv	99
67) sec-Butylbenzene	17.40	105	5483191	10.610	ppbv	99
69) p-Isopropyltoluene	17.76	119	4503758	10.911	ppbv	98
70) n-Butylbenzene	18.65	91	4982137	10.586	ppbv	98
71) 2-Chlorotoluene	15.56	91	3868777	11.369	ppbv	98
72) 4-Ethyltoluene	15.94	105	4167423	11.537	ppbv	99
73) 1,3,5-Trimethylbenzene	16.10	105	3951006	11.254	ppbv	98
74) 1,2,4-Trimethylbenzene	16.87	105	3826397	10.585	ppbv	96
75) 1,3-Dichlorobenzene	17.10	146	2183501	11.407	ppbv	100
76) 1,4-Dichlorobenzene	17.25	146	2283155	11.311	ppbv	100
77) 1,2-Dichlorobenzene	17.93	146	2198315	11.232	ppbv	98
78) Hexachloro-1,3-Butadiene	23.48	225	1487057	11.145	ppbv	99
79) Naphthalene	22.33	128	3902434	11.952	ppbv	98
80) Naphthalene, 2-methyl-	25.06	142	2293167	20.214	ppbv	100
81) 1,2,4-Trichlorobenzene	22.06	180	2081754	11.708	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 863

Delta R.T. -0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 1100336

Ion Ratio Lower Upper

49 100

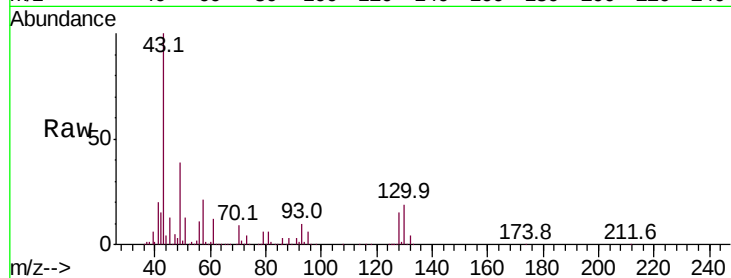
128 36.0 18.4 55.0

130 47.3 23.5 70.6

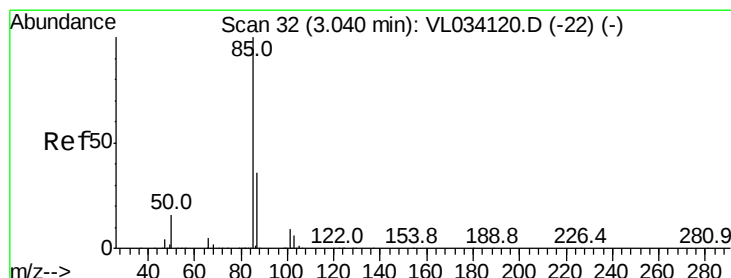
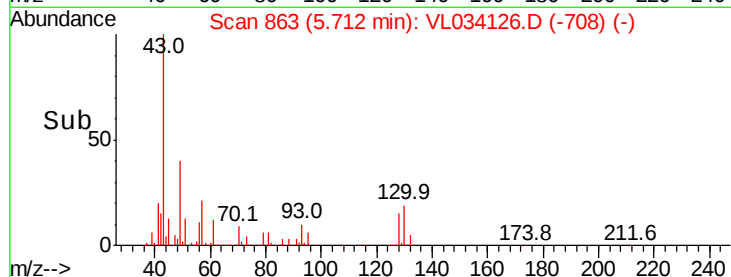
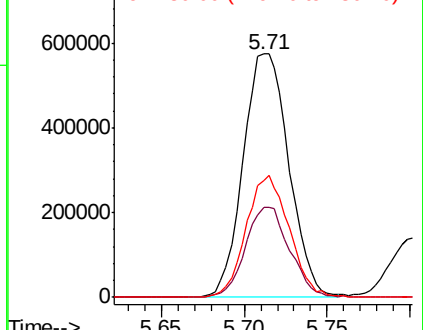
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Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 13.248 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL034126.D

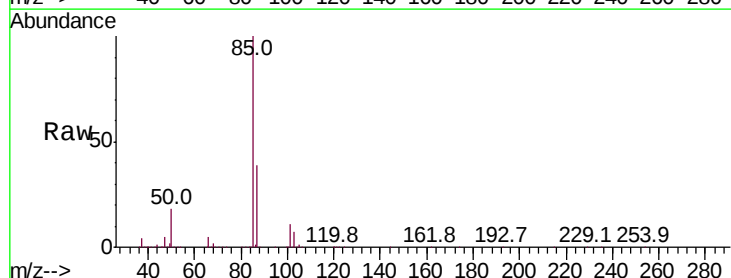
Acq: 5 Sep 2019 6:26

Tgt Ion: 85 Resp: 2404494

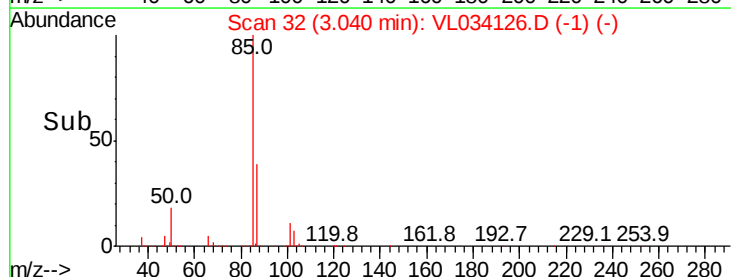
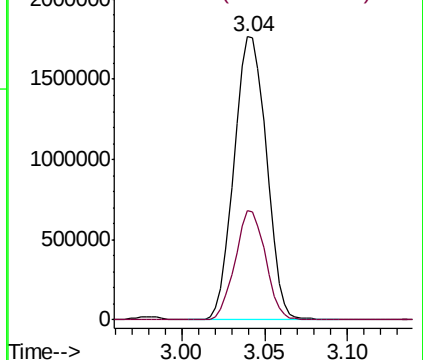
Ion Ratio Lower Upper

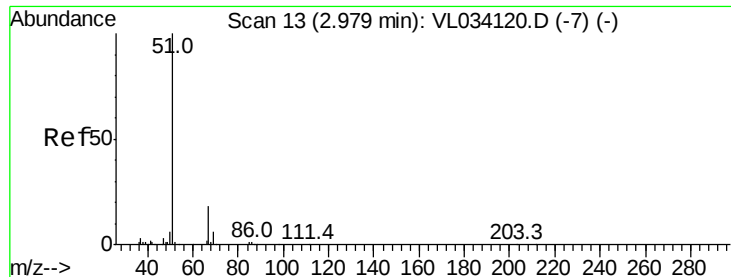
85 100

87 38.5 28.6 43.0



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 13.633 ppbv

RT: 2.98 min Scan# 13

Delta R.T. -0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 51 Resp: 1672094

Ion Ratio Lower Upper

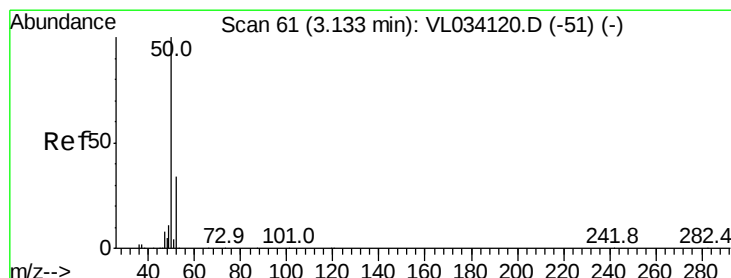
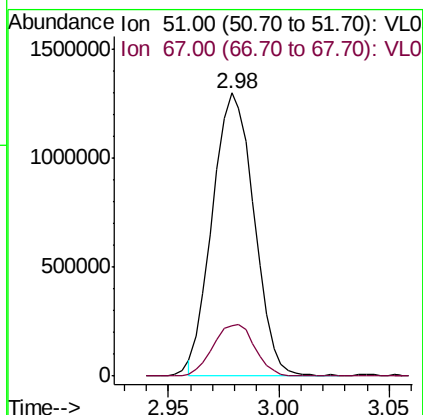
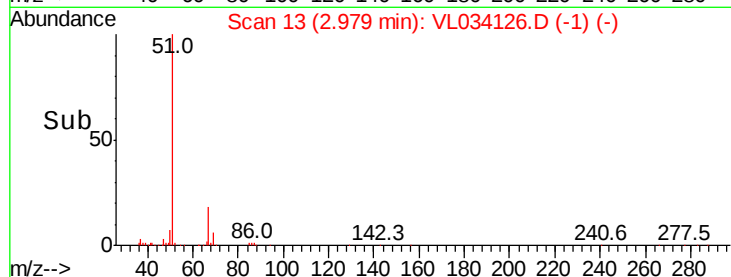
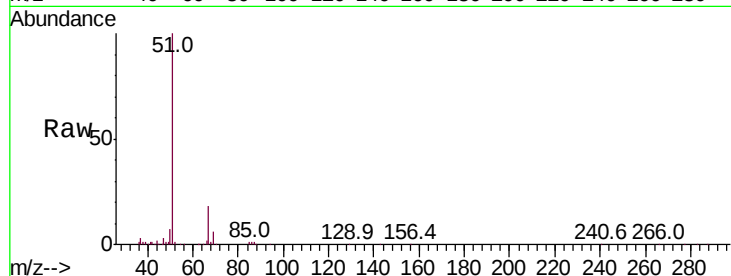
51 100

67 18.4 14.2 21.4

Manual Integrations
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#4

Chloromethane

Concen: 14.139 ppbv

RT: 3.14 min Scan# 62

Delta R.T. 0.00 min

Lab File: VL034126.D

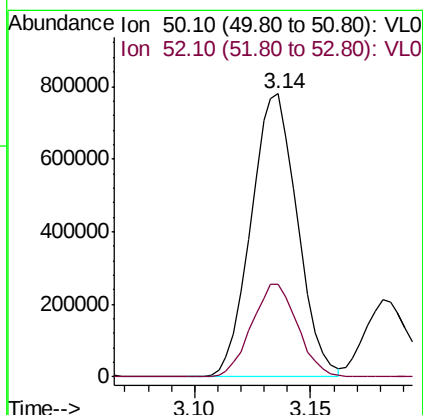
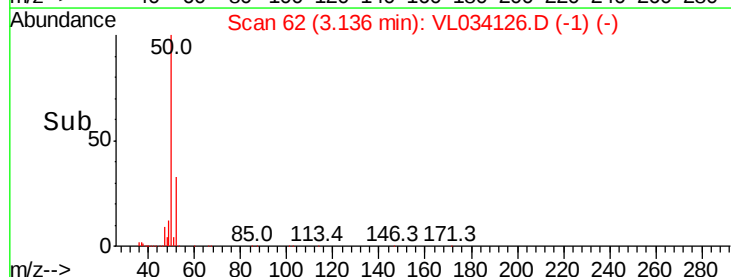
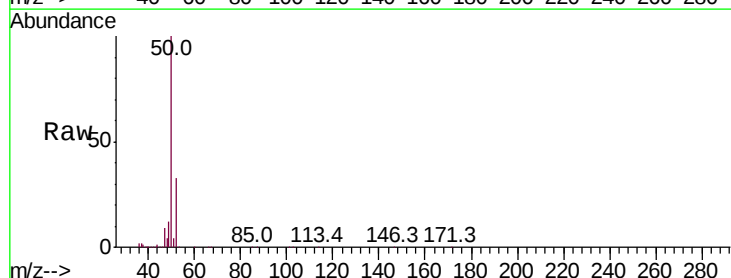
Acq: 5 Sep 2019 6:26

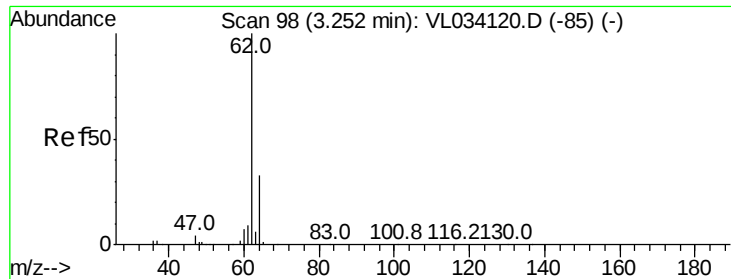
Tgt Ion: 50 Resp: 1084145

Ion Ratio Lower Upper

50 100

52 32.6 27.4 41.2





#5

Vinyl Chloride

Concen: 13.636 ppbv

RT: 3.26 min Scan# 99

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 952424

Ion Ratio Lower Upper

62 100

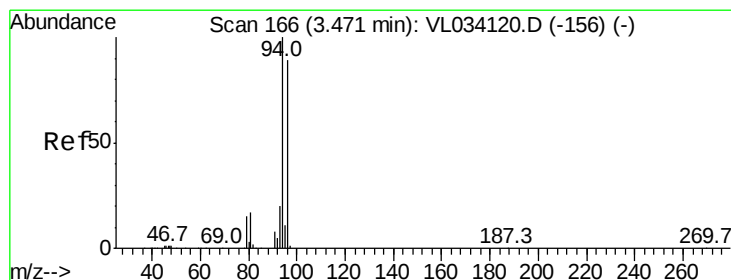
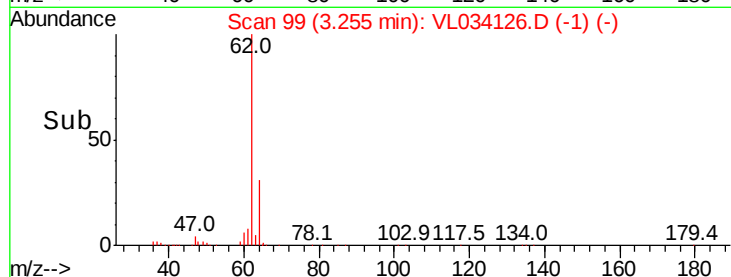
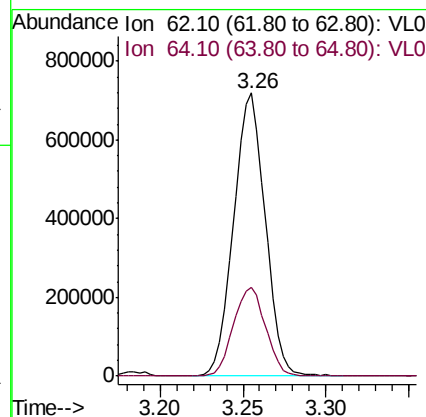
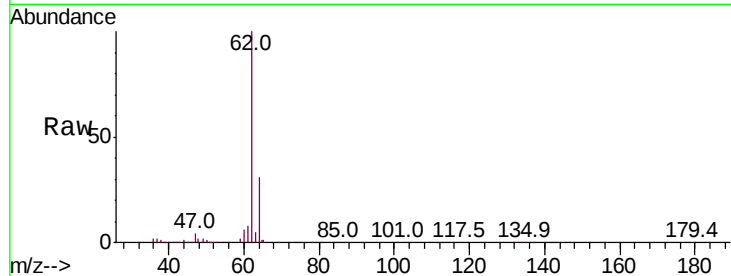
64 31.2 26.6 39.8

Manual Integrations

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#6

Bromomethane

Concen: 14.010 ppbv

RT: 3.47 min Scan# 167

Delta R.T. 0.00 min

Lab File: VL034126.D

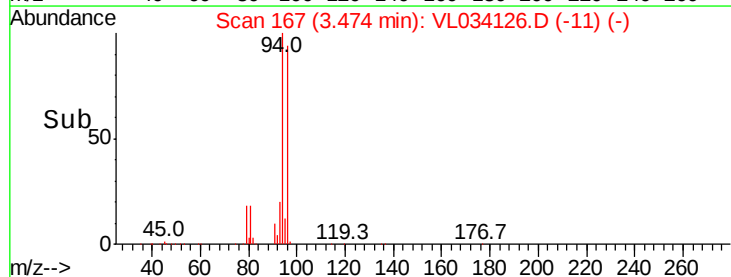
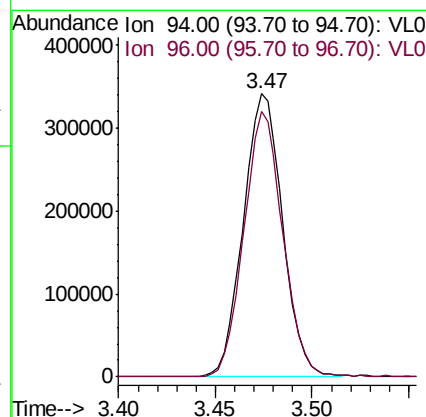
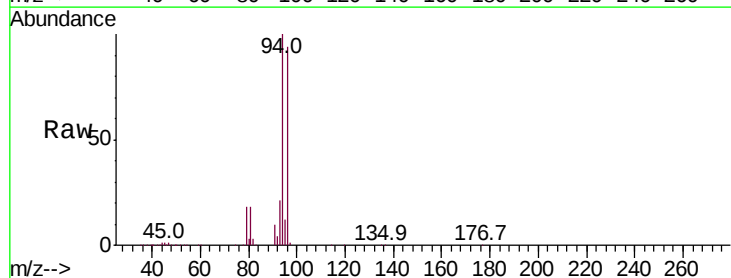
Acq: 5 Sep 2019 6:26

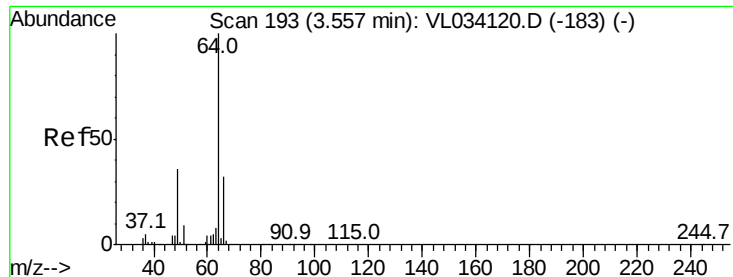
Tgt Ion: 94 Resp: 482934

Ion Ratio Lower Upper

94 100

96 93.8 71.4 107.0





#7

Chloroethane

Concen: 14.338 ppbv

RT: 3.56 min Scan# 194

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampled :

VSTDIC015

Tot Ion: 64 Resp: 341198

Ion Ratio Lower Upper

64 100

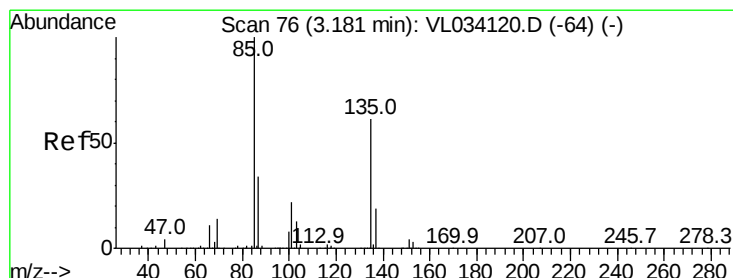
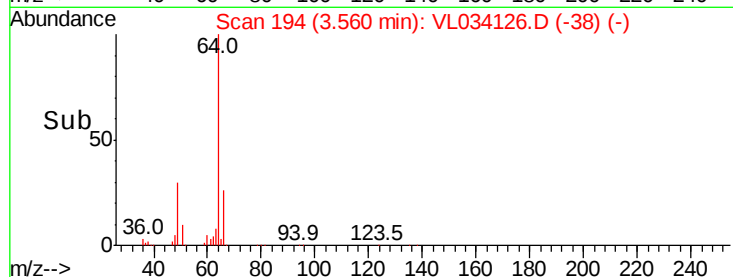
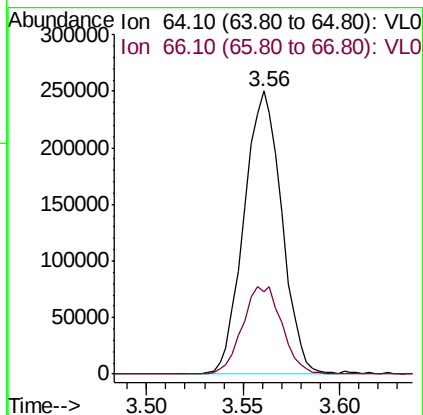
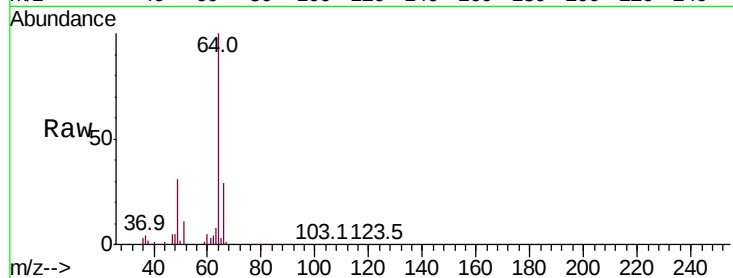
66 28.9 25.4 38.2

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 12.773 ppbv

RT: 3.18 min Scan# 77

Delta R.T. 0.00 min

Lab File: VL034126.D

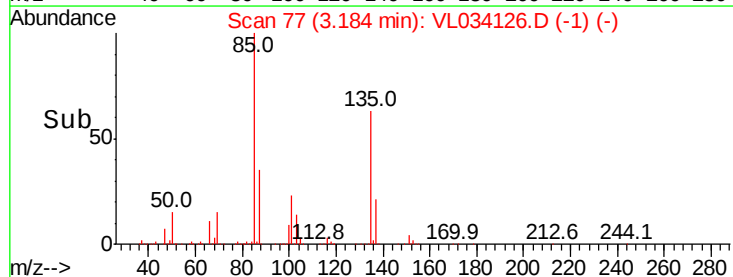
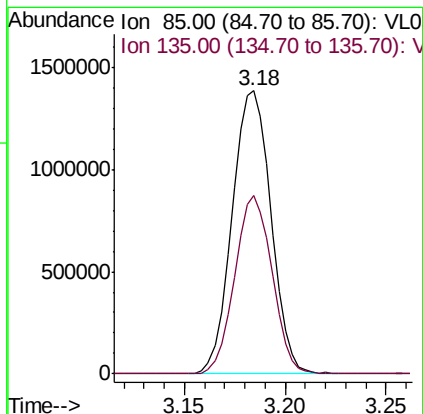
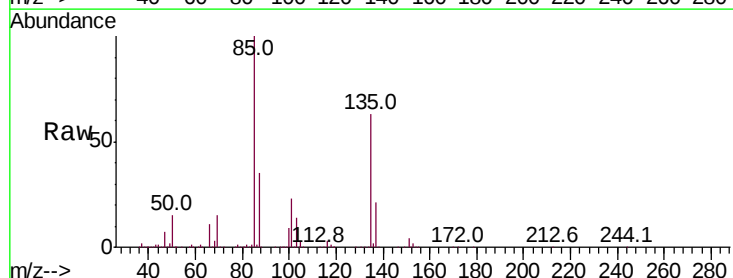
Acq: 5 Sep 2019 6:26

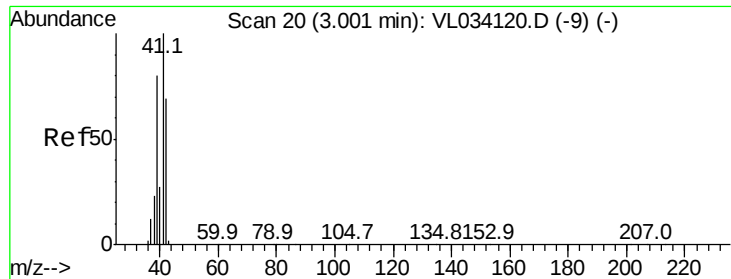
Tgt Ion: 85 Resp: 1865933

Ion Ratio Lower Upper

85 100

135 61.1 48.0 72.0





#9

Propene

Concen: 13.603 ppbv

RT: 3.00 min Scan# 20

Delta R.T. -0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 933536

Ion Ratio Lower Upper

41 100

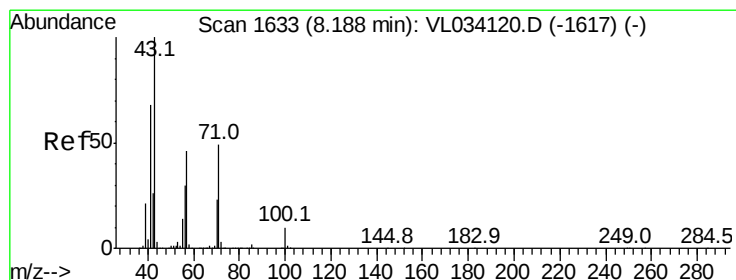
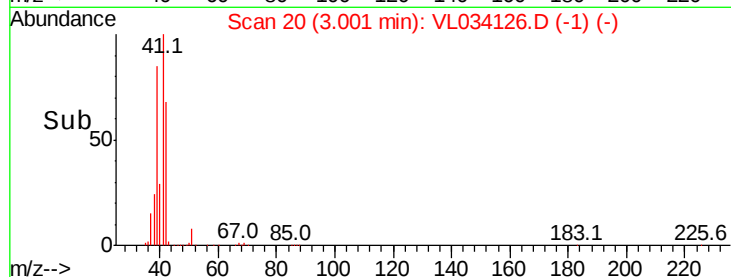
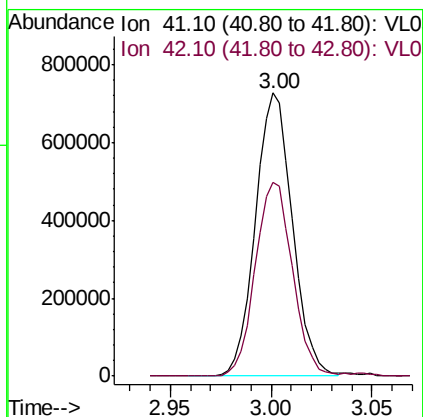
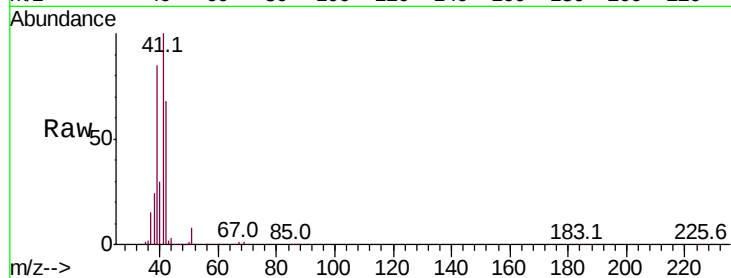
42 69.8 54.6 81.8

Manual Integrations

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#10

Heptane

Concen: 13.481 ppbv

RT: 8.19 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VL034126.D

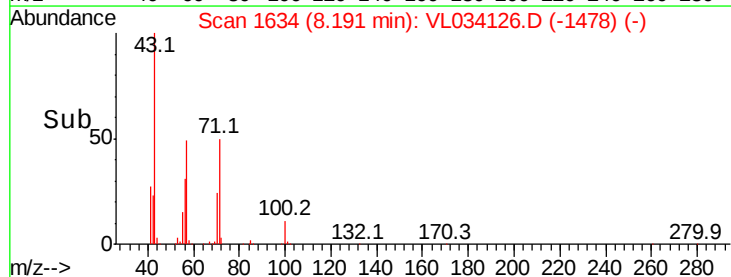
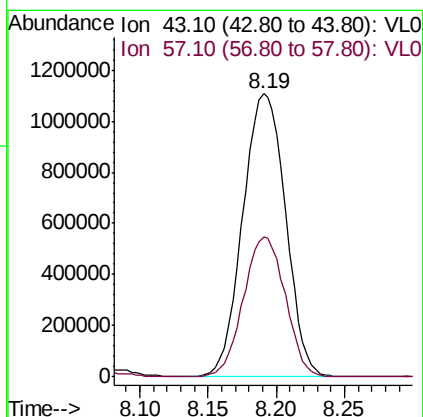
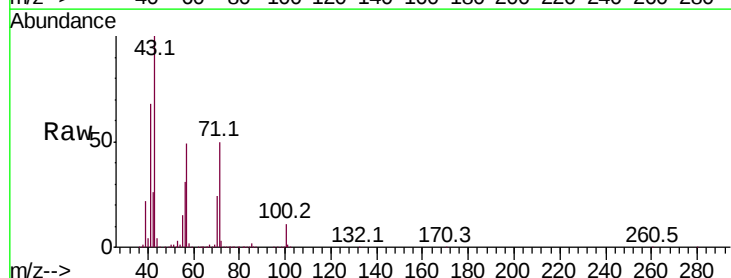
Acq: 5 Sep 2019 6:26

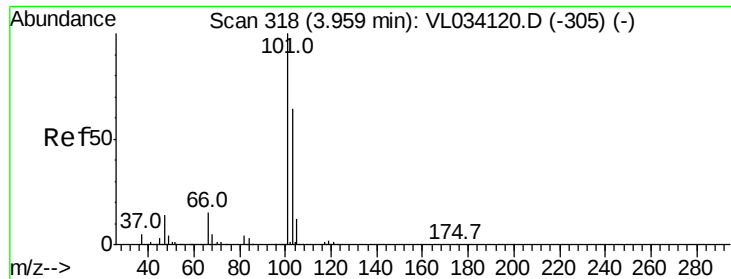
Tgt Ion: 43 Resp: 2400918

Ion Ratio Lower Upper

43 100

57 48.6 38.1 57.1





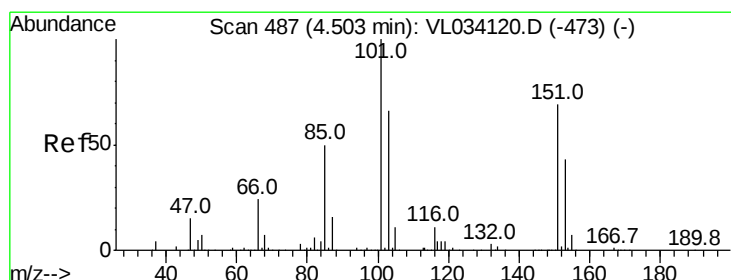
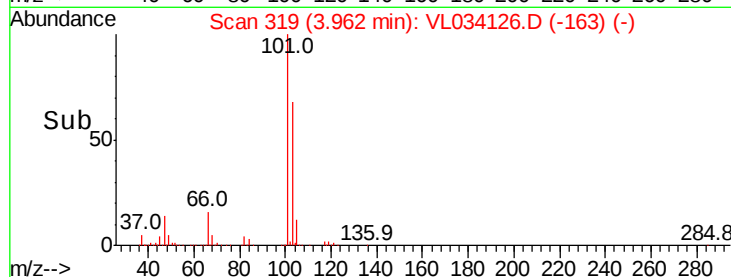
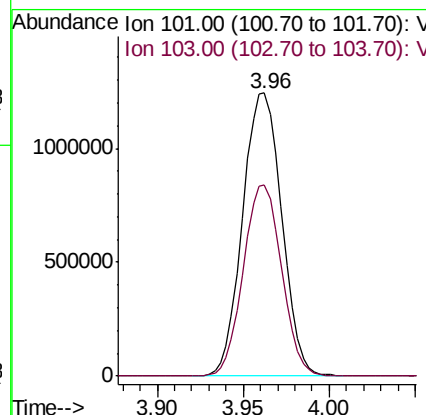
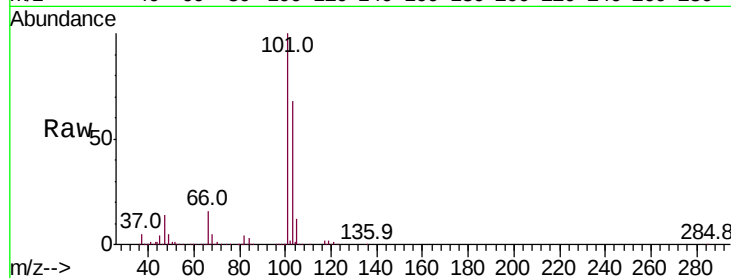
#11
 Trichlorofluoromethane
 Concen: 13.291 ppbv
 RT: 3.96 min Scan# 319
 Delta R.T. 0.00 min
 Lab File: VL034126.D
 Acq: 5 Sep 2019 6:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:101 Resp: 1967198
 Ion Ratio Lower Upper
 101 100
 103 67.6 51.4 77.2

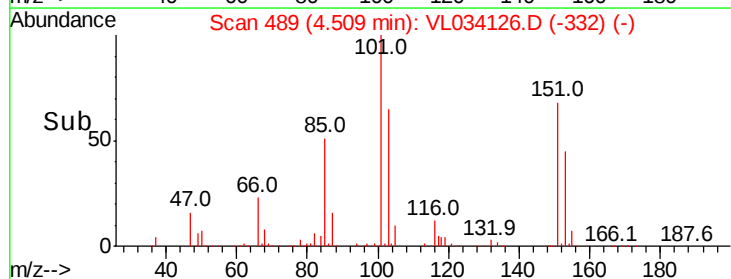
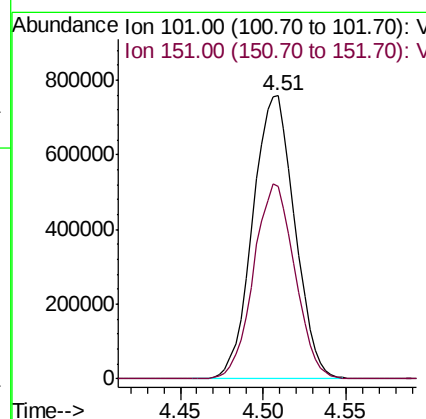
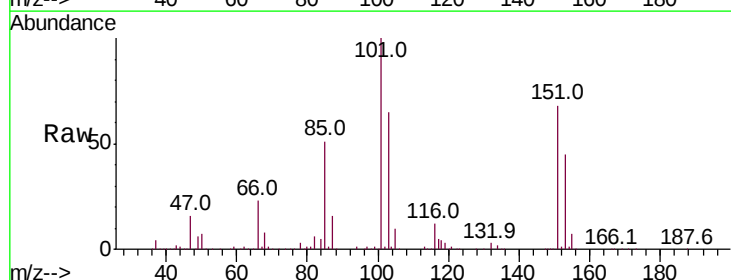
Manual Integrations
 APPROVED

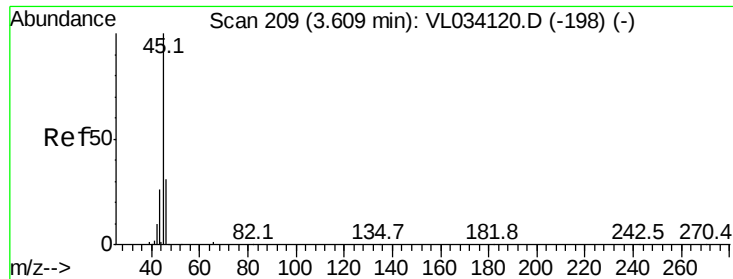
MMDadoda
 9/12/2019 5:15:48 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 13.526 ppbv
 RT: 4.51 min Scan# 489
 Delta R.T. 0.01 min
 Lab File: VL034126.D
 Acq: 5 Sep 2019 6:26

Tgt Ion:101 Resp: 1339354
 Ion Ratio Lower Upper
 101 100
 151 67.8 53.0 79.6





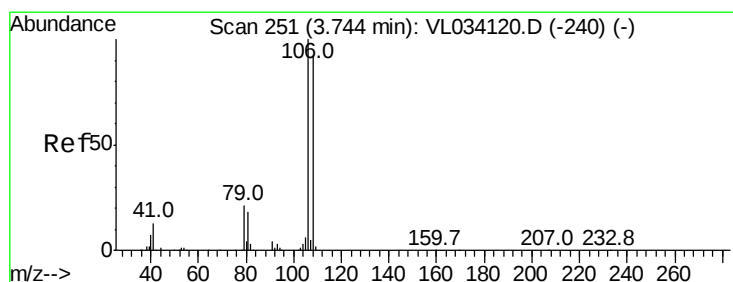
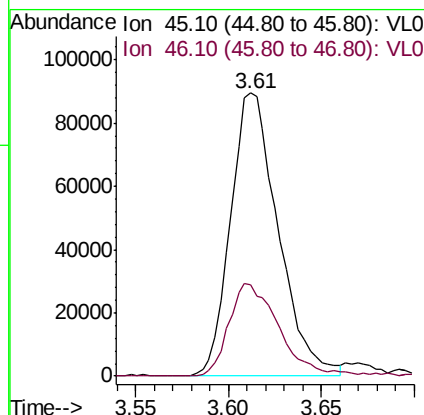
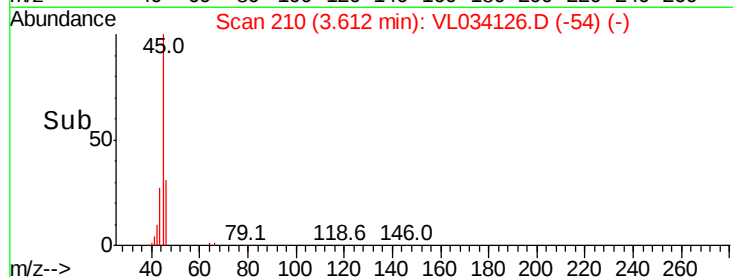
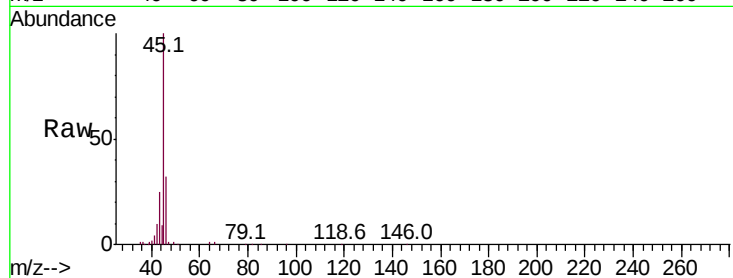
#13
Ethanol
Concen: 10.267 ppbv
RT: 3.61 min Scan# 210
Delta R.T. 0.00 min
Lab File: VL034126.D
Acq: 5 Sep 2019 6:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 45 Resp: 159429
Ion Ratio Lower Upper
45 100
46 35.0 15.0 60.0

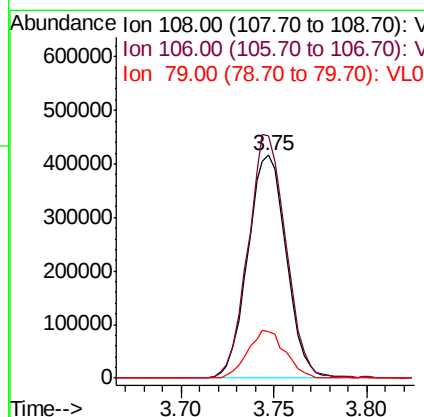
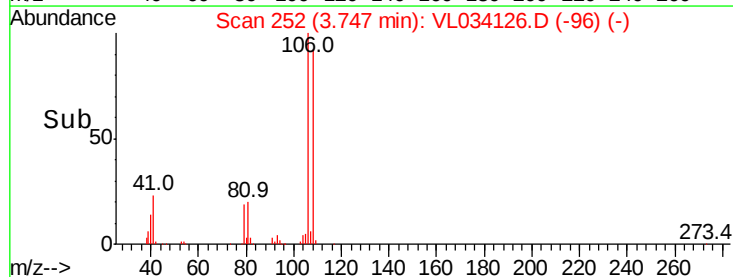
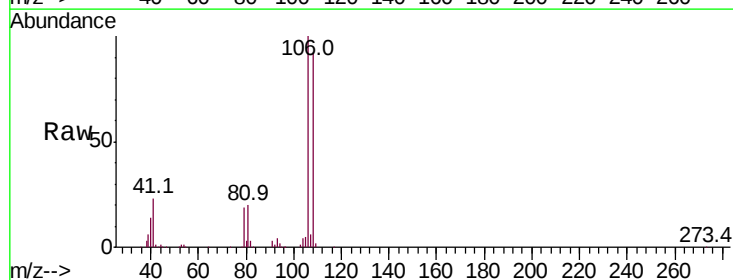
Manual Integrations
APPROVED

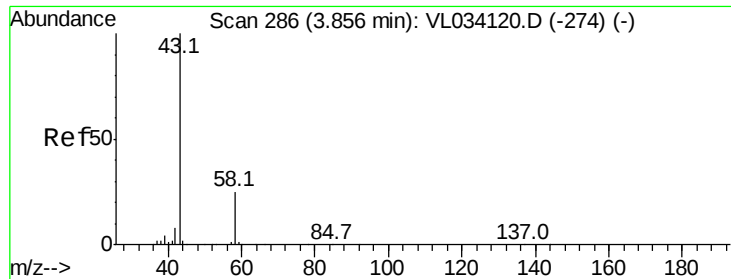
MMDadoda
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#14
Bromoethene
Concen: 13.981 ppbv
RT: 3.75 min Scan# 252
Delta R.T. 0.00 min
Lab File: VL034126.D
Acq: 5 Sep 2019 6:26

Tgt Ion: 108 Resp: 598551
Ion Ratio Lower Upper
108 100
106 108.2 87.2 130.8
79 21.1 16.5 24.7





#15

Acetone

Concen: 12.890 ppbv

RT: 3.86 min Scan# 287

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 1709408

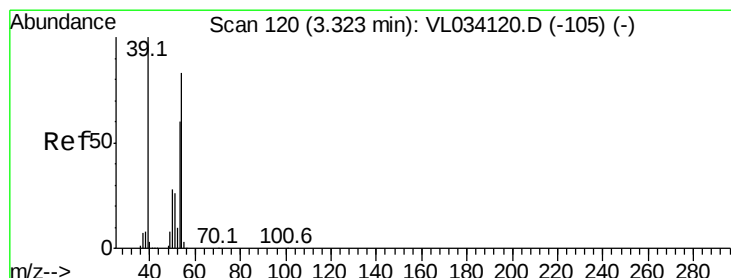
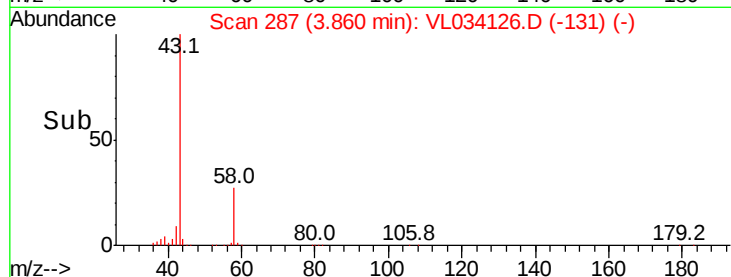
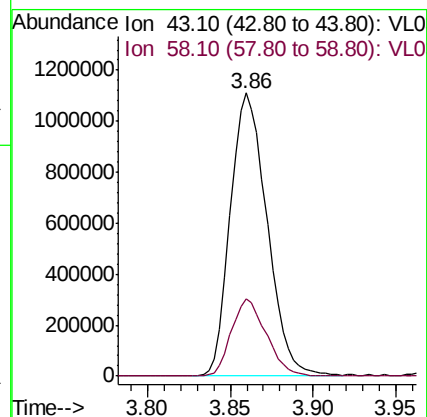
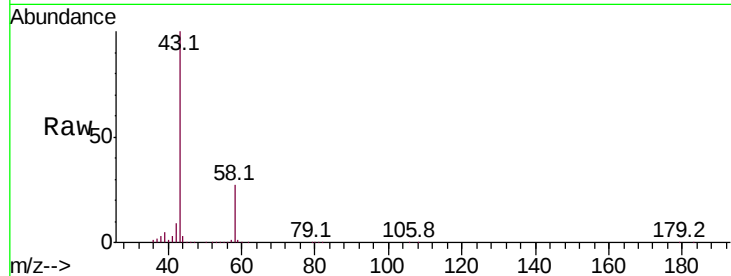
Ion Ratio Lower Upper

43 100

58 26.1 20.6 30.8

Manual Integrations
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#16

1,3-Butadiene

Concen: 14.089 ppbv

RT: 3.33 min Scan# 121

Delta R.T. 0.00 min

Lab File: VL034126.D

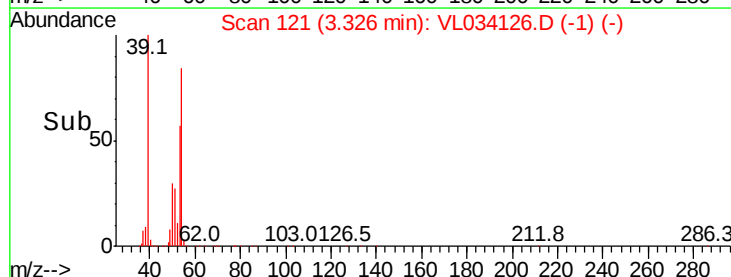
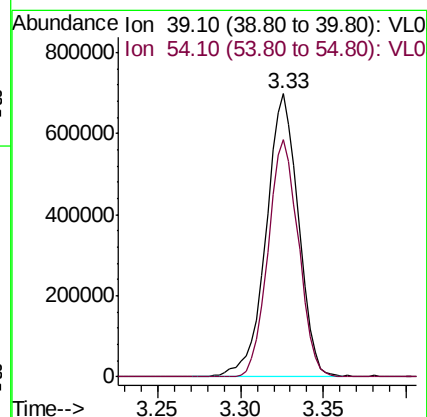
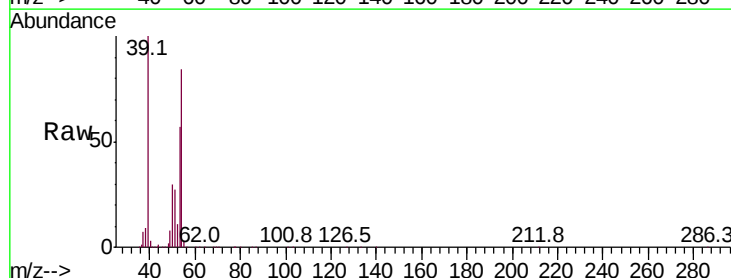
Acq: 5 Sep 2019 6:26

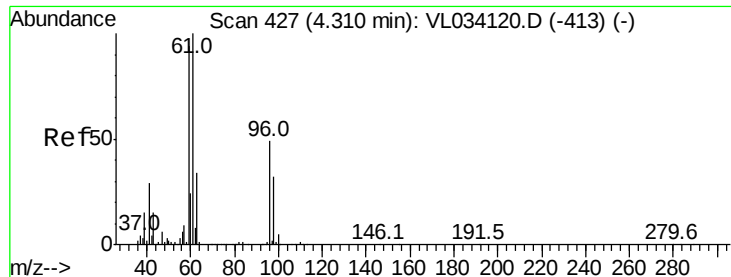
Tgt Ion: 39 Resp: 946219

Ion Ratio Lower Upper

39 100

54 79.4 63.5 95.3





#17

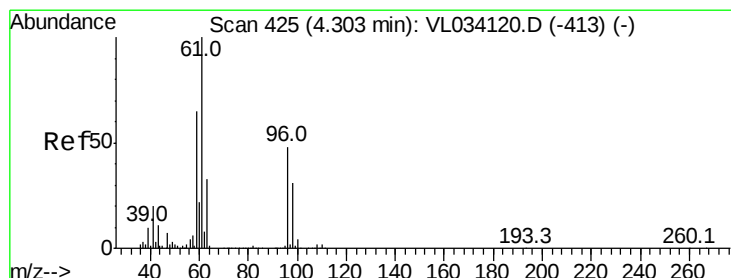
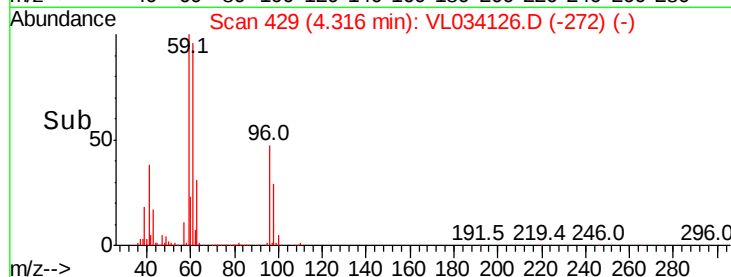
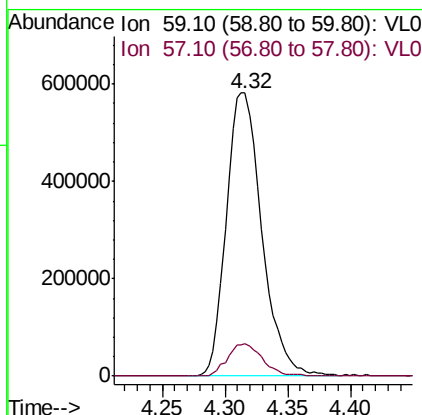
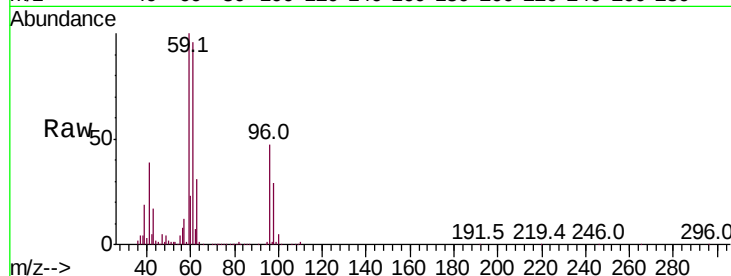
tert-Butyl alcohol
Concen: 11.874 ppbv
RT: 4.32 min Scan# 429
Delta R.T. 0.01 min
Lab File: VL034126.D
Acq: 5 Sep 2019 6:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 59 Resp: 1143093
Ion Ratio Lower Upper
59 100
57 11.3 8.6 12.8

Manual Integrations
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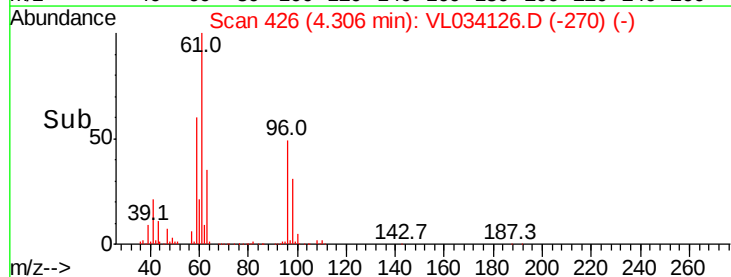
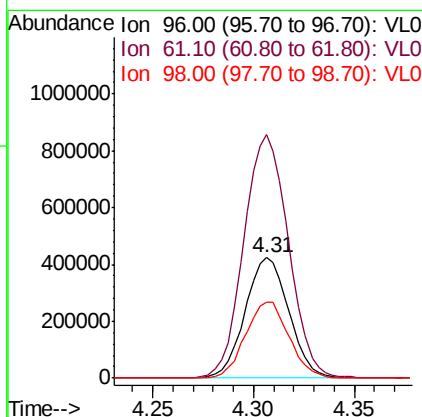
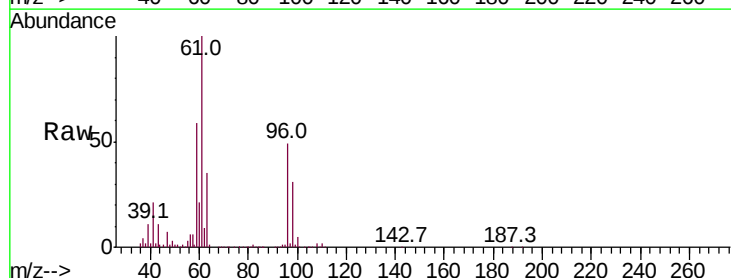
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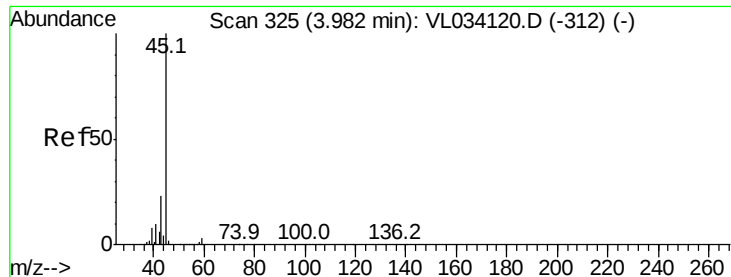


#18

1,1-Dichloroethene
Concen: 14.245 ppbv
RT: 4.31 min Scan# 426
Delta R.T. 0.00 min
Lab File: VL034126.D
Acq: 5 Sep 2019 6:26

Tgt Ion: 96 Resp: 643599
Ion Ratio Lower Upper
96 100
61 202.2 165.8 248.8
98 63.3 50.8 76.2





#19

Isopropyl Alcohol

Concen: 11.722 ppbv

RT: 3.98 min Scan# 326

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 45 Resp: 1046006

Ion Ratio Lower Upper

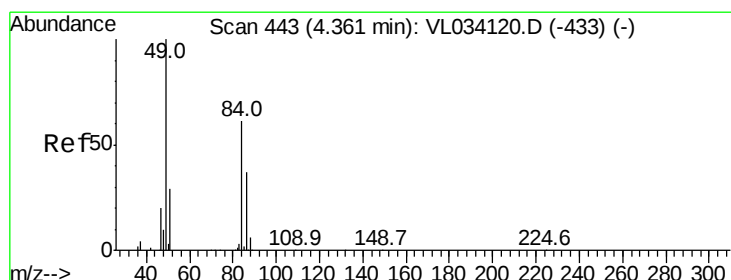
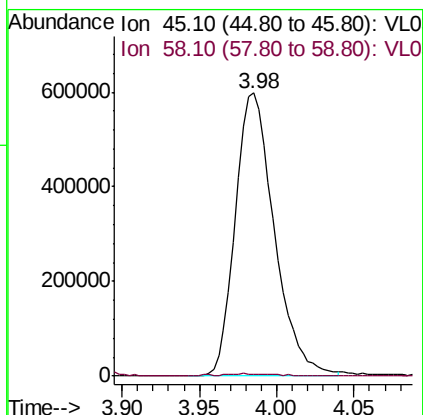
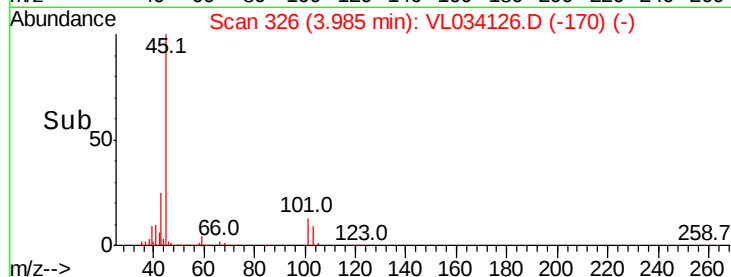
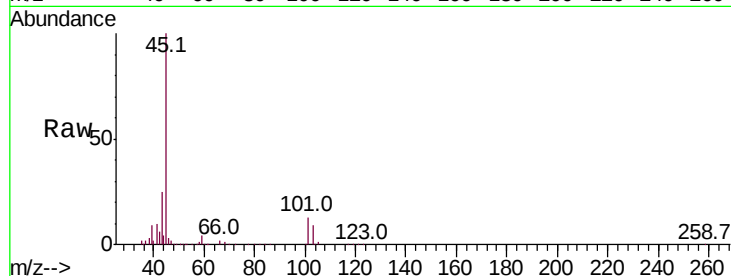
45 100

58 1.3 1.0 1.6

Manual Integrations
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#20

Methylene Chloride

Concen: 13.131 ppbv

RT: 4.36 min Scan# 444

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Tgt Ion: 84 Resp: 575740

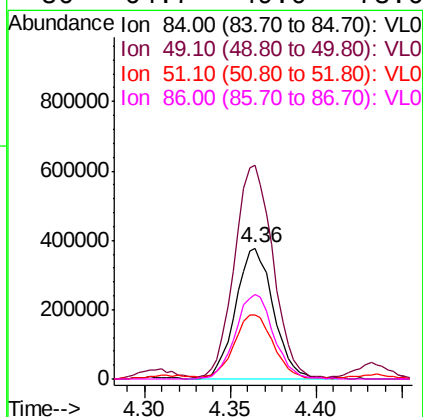
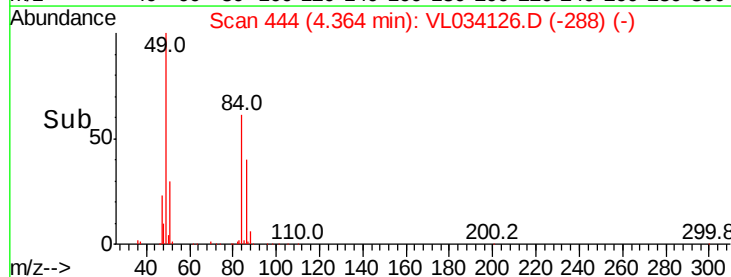
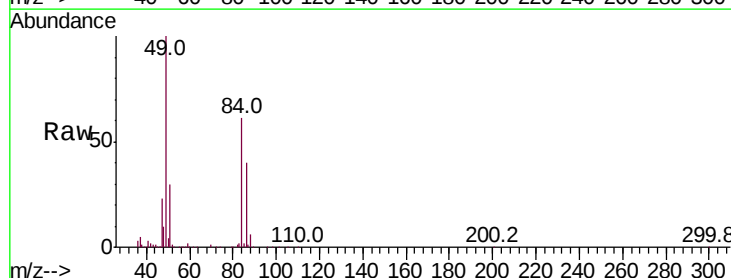
Ion Ratio Lower Upper

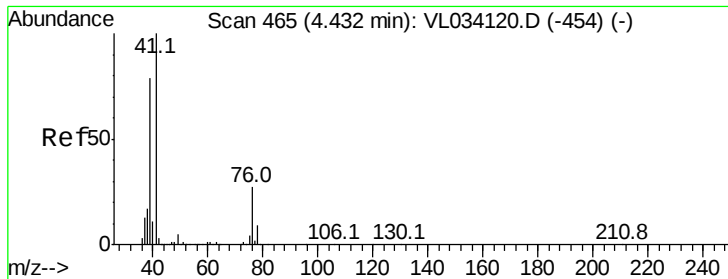
84 100

49 161.9 131.0 196.6

51 48.6 38.1 57.1

86 64.7 49.0 73.6





#21

Allvl Chloride

Concen: 14.426 ppbv

RT: 4.43 min Scan# 465

Delta R.T. -0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 1261225

Ion Ratio Lower Upper

41 100

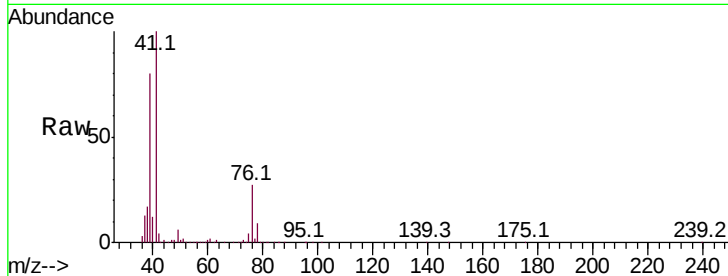
76 27.4 21.6 32.4

39 80.7 65.0 97.4

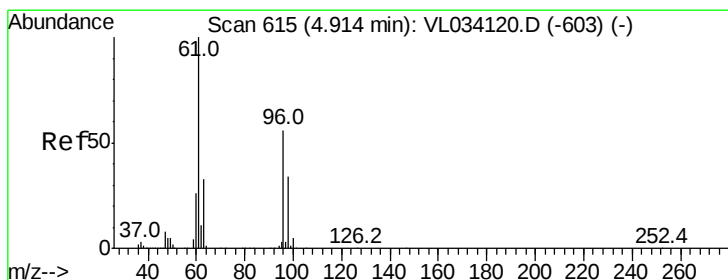
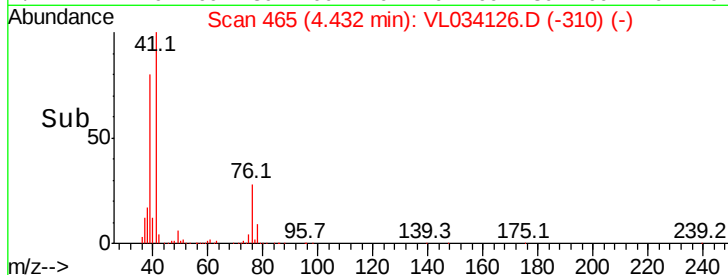
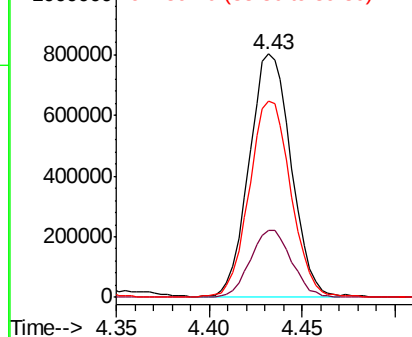
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Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 14.436 ppbv

RT: 4.91 min Scan# 615

Delta R.T. -0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

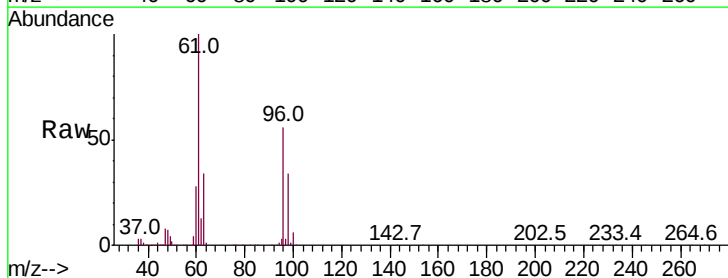
Tgt Ion: 96 Resp: 653710

Ion Ratio Lower Upper

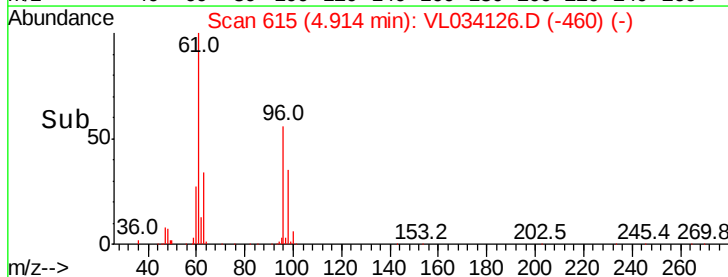
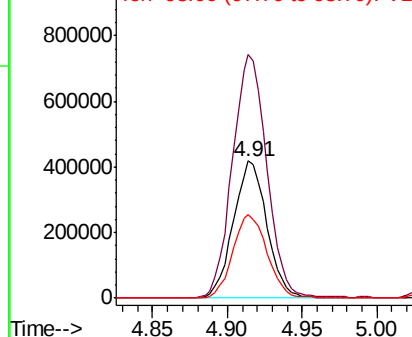
96 100

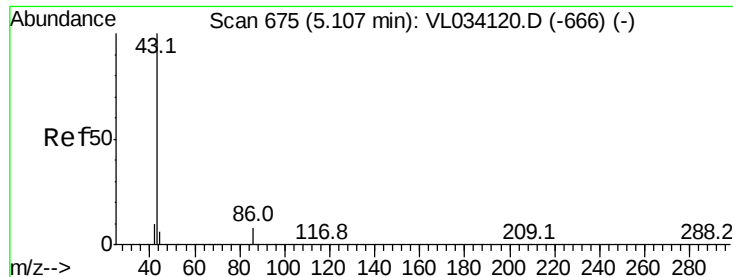
61 177.9 143.1 214.7

98 61.2 49.0 73.4



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 13.788 ppbv

RT: 5.11 min Scan# 675

Delta R.T. -0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampled :

VSTDIC015

Tot Ion: 43 Resp: 3102052

Ion Ratio Lower Upper

43 100

86 7.5 5.5 8.3

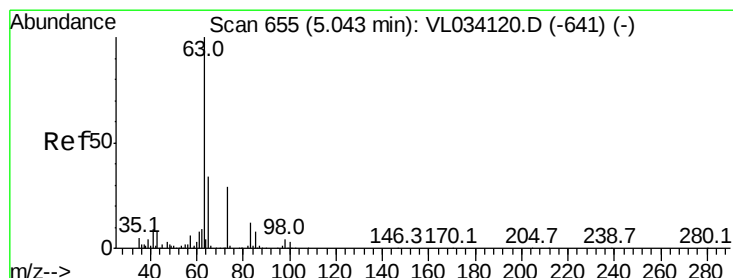
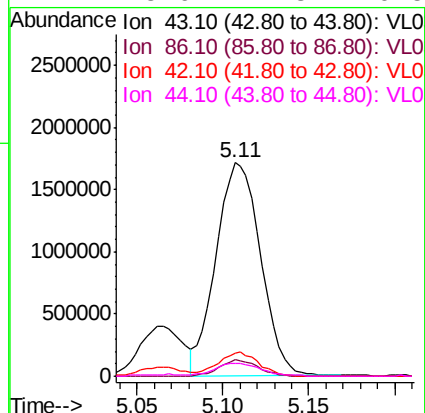
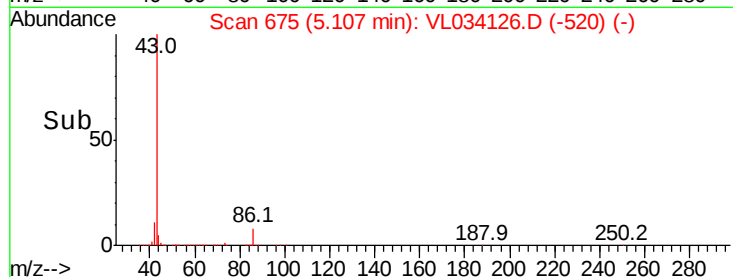
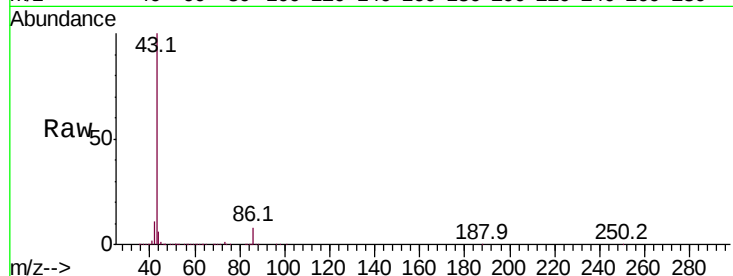
42 10.7 8.2 12.4

44 5.6 4.3 6.5

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 13.341 ppbv

RT: 5.04 min Scan# 655

Delta R.T. -0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

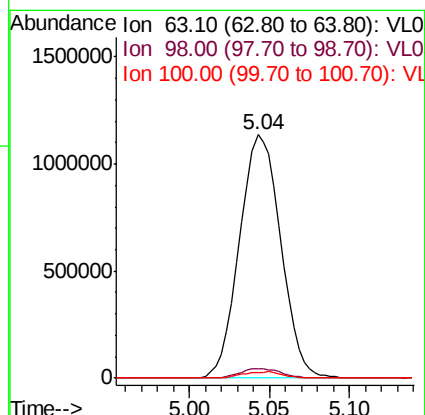
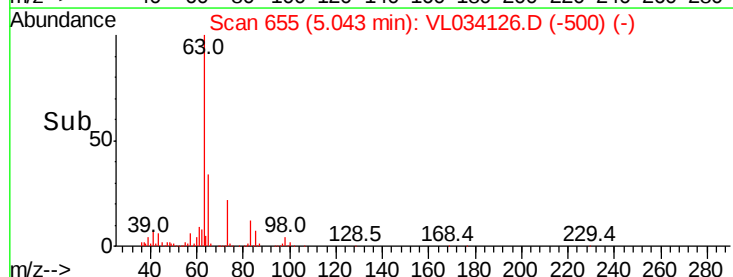
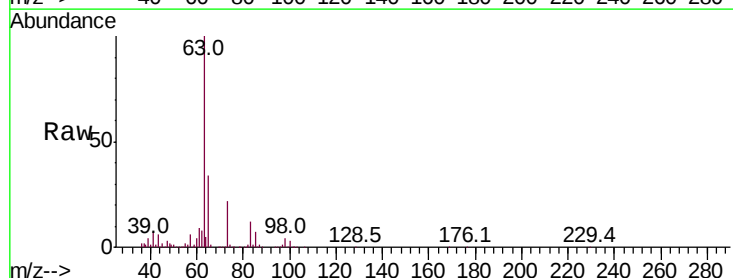
Tgt Ion: 63 Resp: 1992106

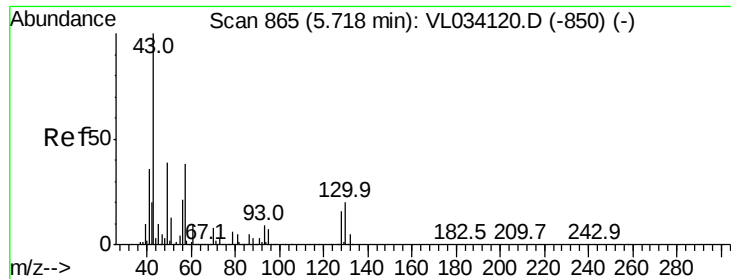
Ion Ratio Lower Upper

63 100

98 4.0 2.1 6.2

100 2.5 1.4 4.0





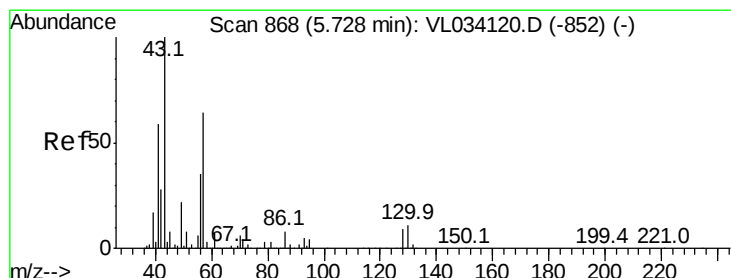
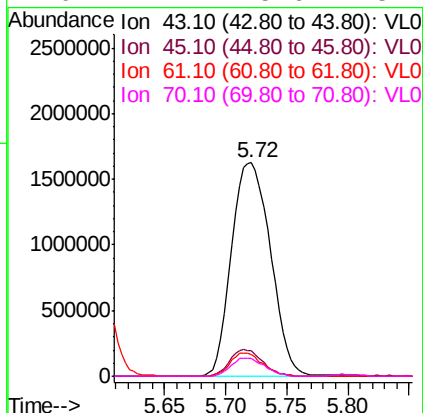
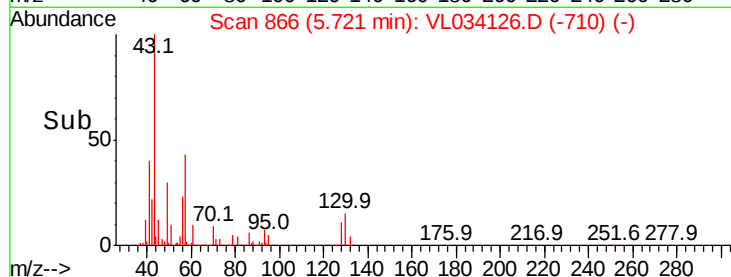
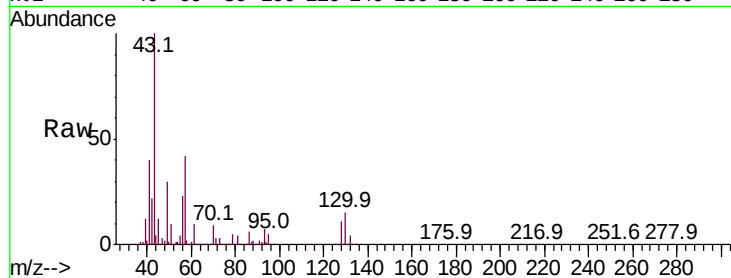
#25
Ethyl Acetate
Concen: 12.421 ppbv
RT: 5.72 min Scan# 866
Delta R.T. 0.00 min
Lab File: VL034126.D
Acq: 5 Sep 2019 6:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
43	100		
45	10.7	8.2	12.4
61	9.2	7.4	11.2
70	7.4	5.6	8.4

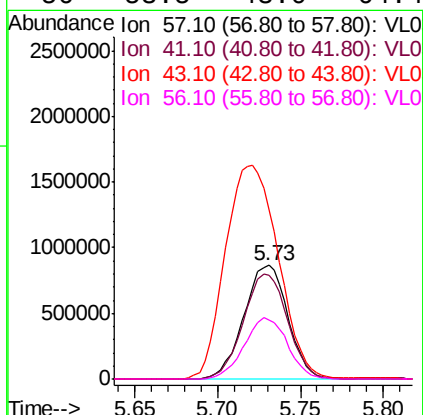
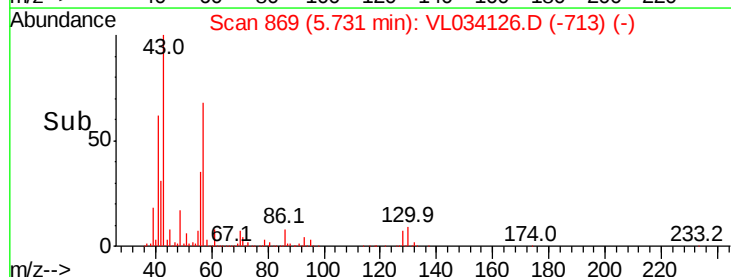
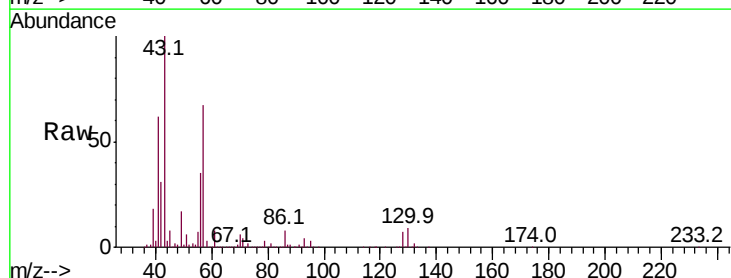
Manual Integrations
APPROVED

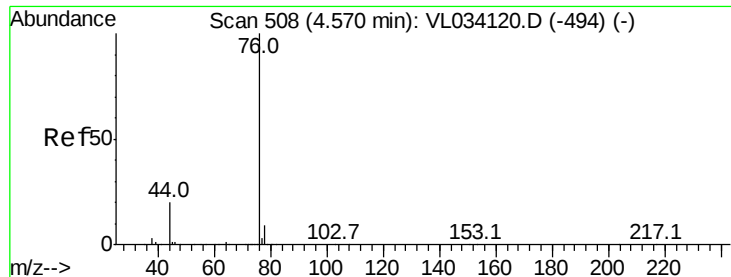
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#26
Hexane
Concen: 12.282 ppbv
RT: 5.73 min Scan# 869
Delta R.T. 0.00 min
Lab File: VL034126.D
Acq: 5 Sep 2019 6:26

Tgt Ion	Ratio	Lower	Upper
57	100		
41	94.1	76.6	115.0
43	227.7	189.2	283.8
56	53.5	43.0	64.4





#27

Carbon Disulfide

Concen: 14.835 ppbv

RT: 4.57 min Scan# 509

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 1728386

Ion Ratio Lower Upper

76 100

44 21.6 17.6 26.4

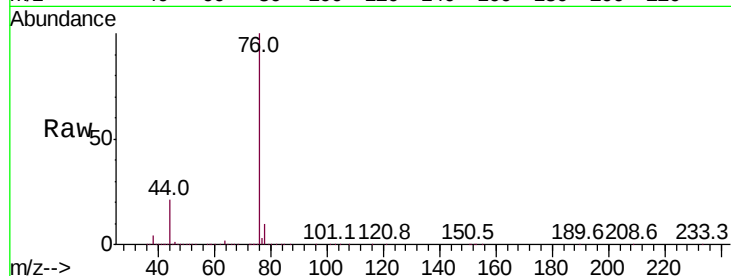
78 9.7 7.3 10.9

Manual Integrations

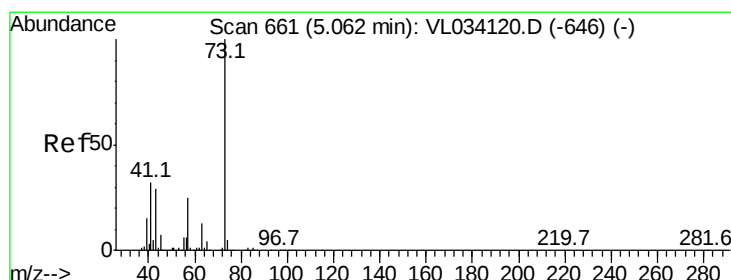
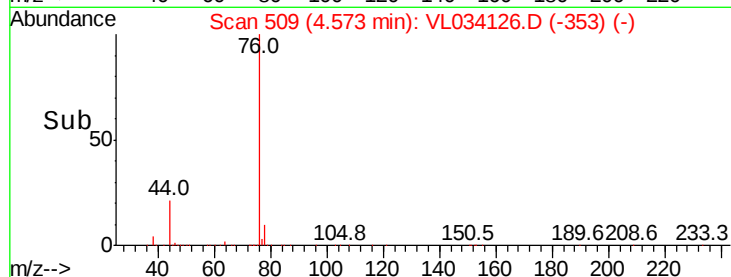
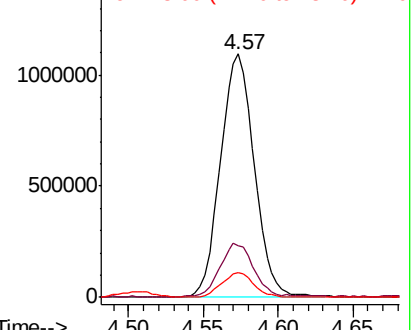
APPROVED

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



#28

Methyl tert-Butyl Ether

Concen: 13.215 ppbv

RT: 5.07 min Scan# 662

Delta R.T. 0.00 min

Lab File: VL034126.D

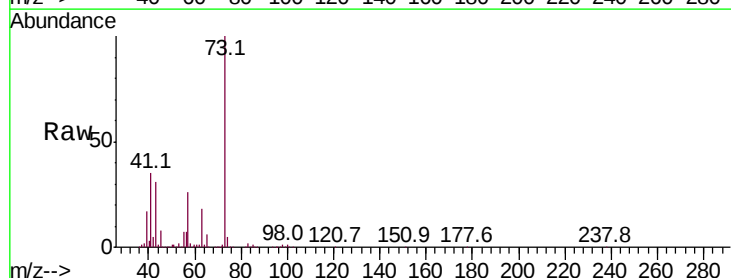
Acq: 5 Sep 2019 6:26

Tgt Ion: 73 Resp: 2505849

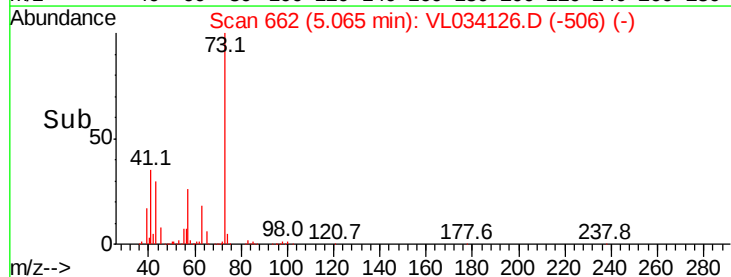
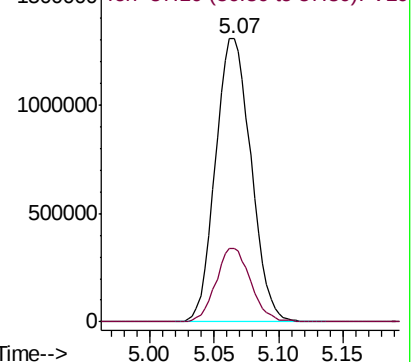
Ion Ratio Lower Upper

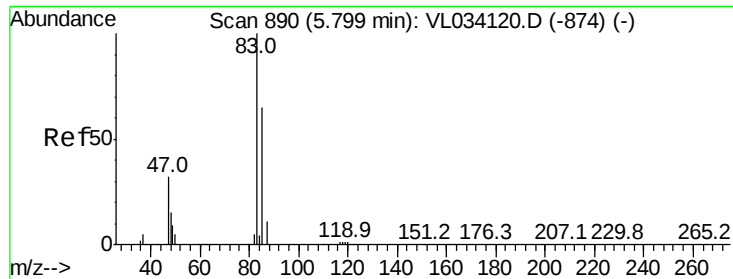
73 100

57 25.5 19.8 29.8



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





#29

Chloroform

Concen: 13.372 ppbv

RT: 5.80 min Scan# 891

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 83 Resp: 2334335

Ion Ratio Lower Upper

83 100

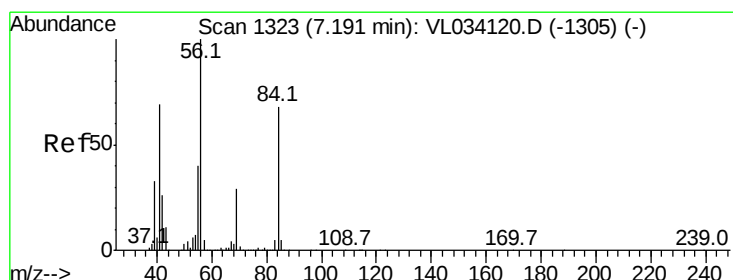
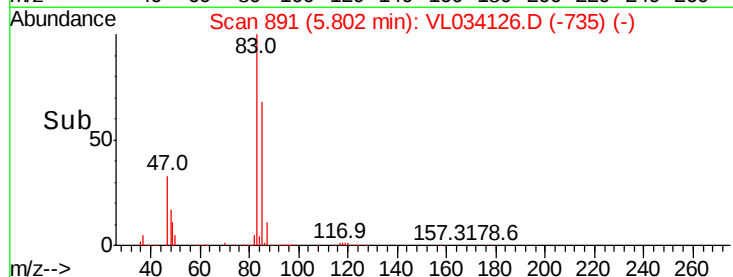
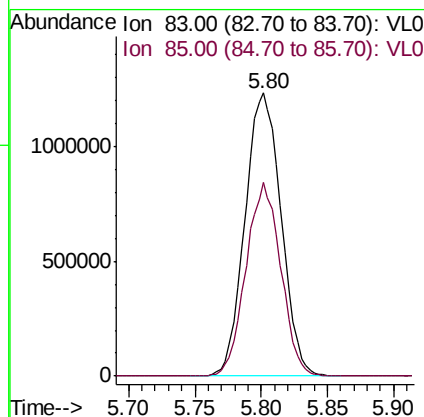
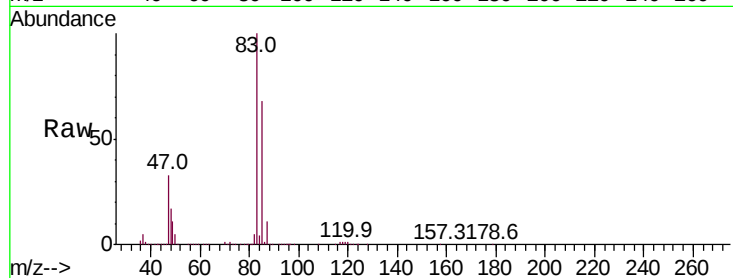
85 68.2 51.8 77.6

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#30

Cyclohexane

Concen: 14.031 ppbv

RT: 7.19 min Scan# 1324

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

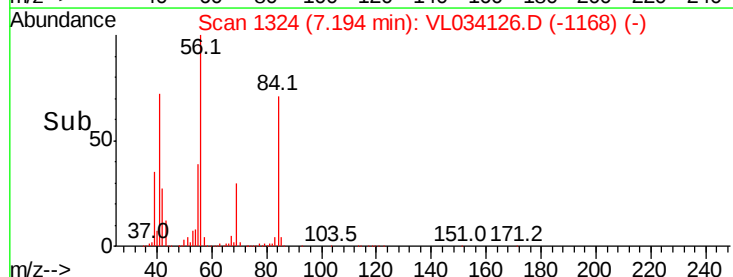
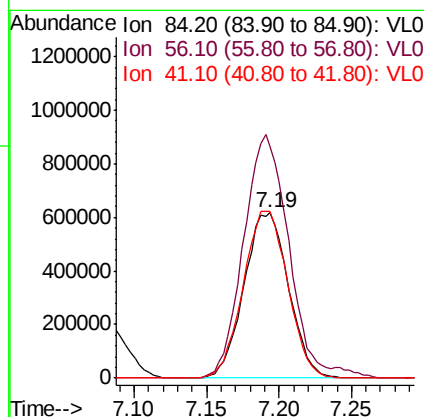
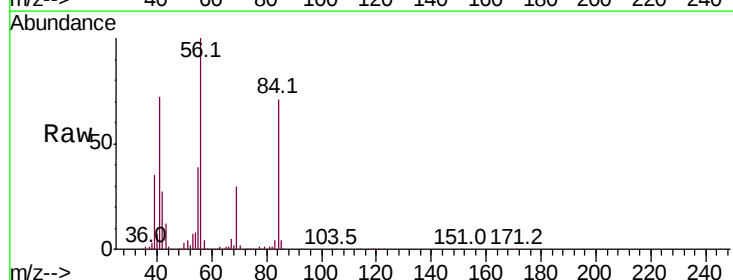
Tgt Ion: 84 Resp: 1312817

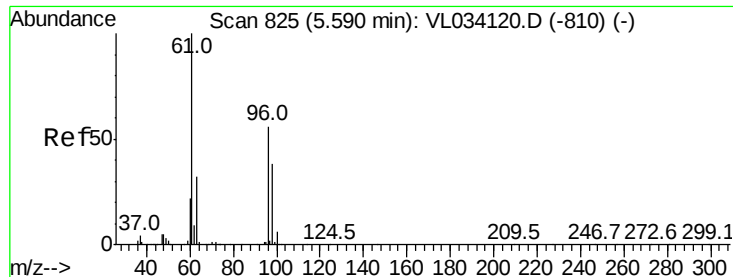
Ion Ratio Lower Upper

84 100

56 151.7 122.6 183.8

41 101.8 79.1 118.7





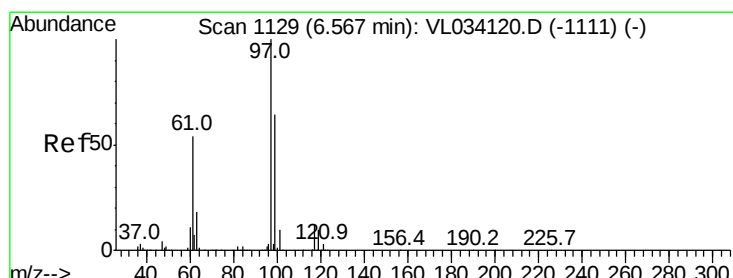
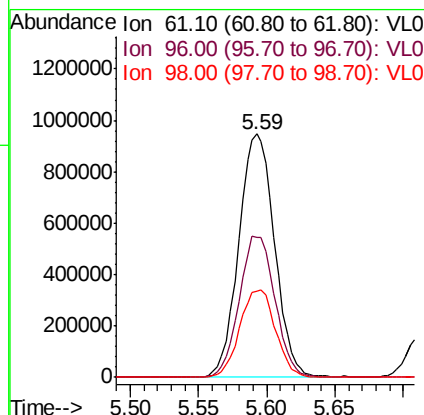
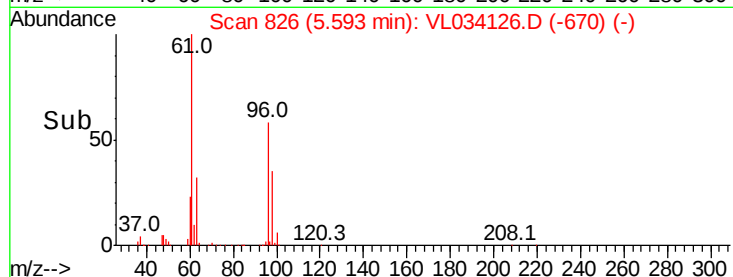
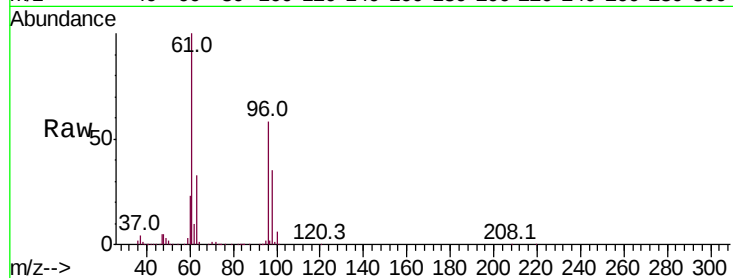
#31
 cis-1,2-Dichloroethene
 Concen: 13.914 ppbv
 RT: 5.59 min Scan# 826
 Delta R.T. 0.00 min
 Lab File: VL034126.D
 Acq: 5 Sep 2019 6:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
61	100		
96	57.7	44.4	66.6
98	35.2	30.0	45.0

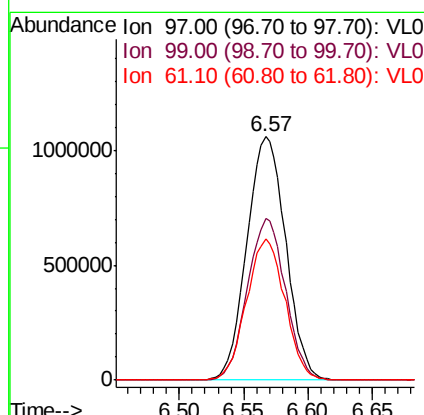
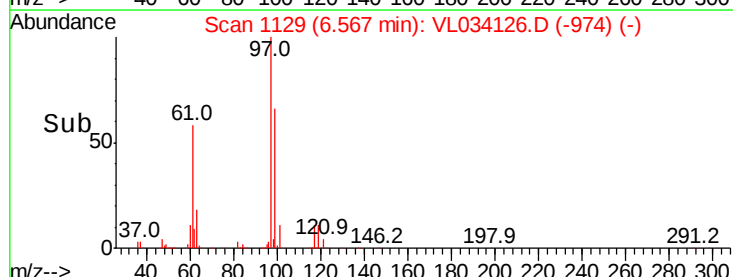
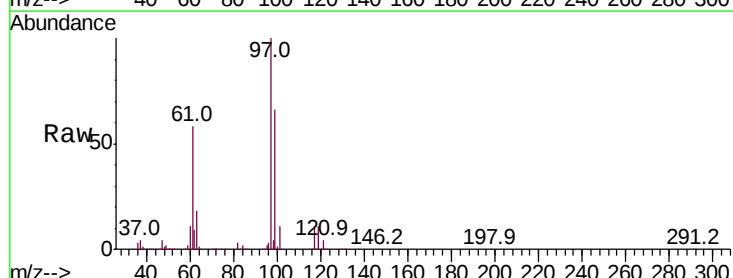
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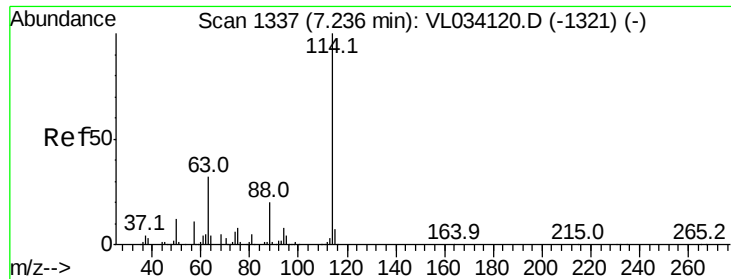
MMDadoda
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#32
 1,1,1-Trichloroethane
 Concen: 13.584 ppbv
 RT: 6.57 min Scan# 1129
 Delta R.T. -0.00 min
 Lab File: VL034126.D
 Acq: 5 Sep 2019 6:26

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.3	51.7	77.5
61	57.6	44.0	66.0





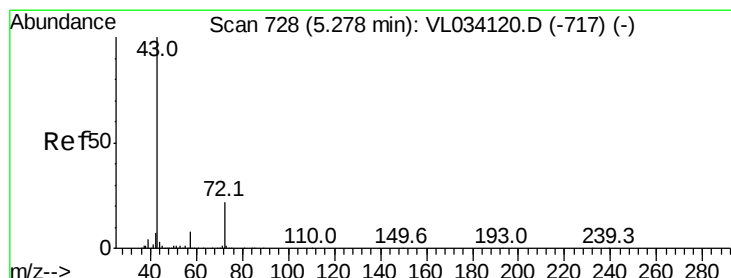
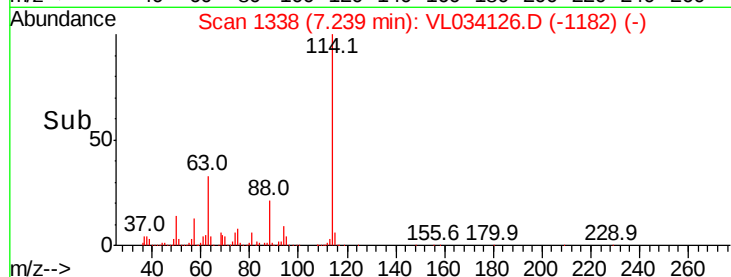
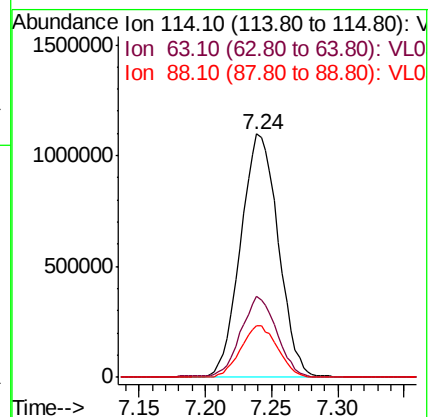
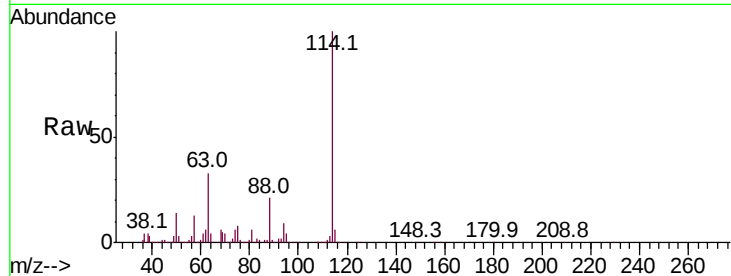
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.24 min Scan# 1338
Delta R.T. 0.00 min
Lab File: VL034126.D
Acq: 5 Sep 2019 6:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
114	100		
63	32.5	25.5	38.3
88	20.8	16.8	25.2

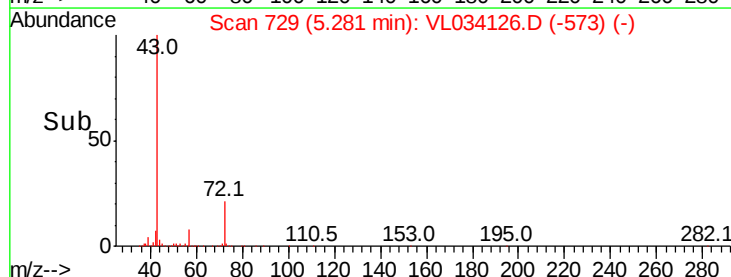
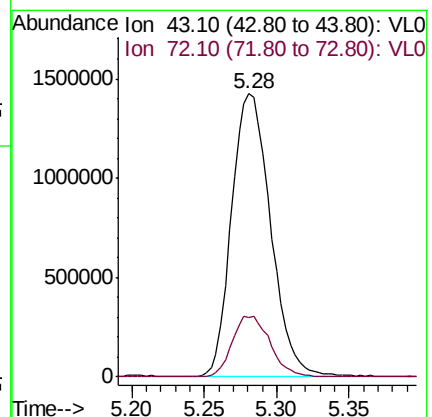
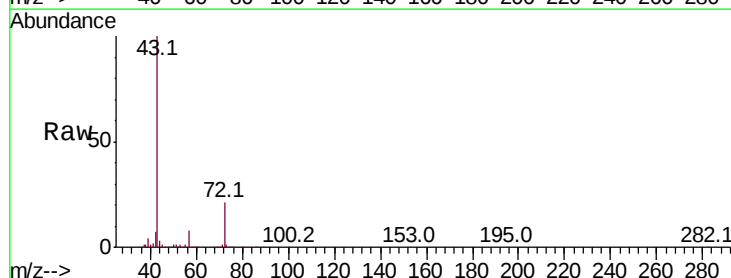
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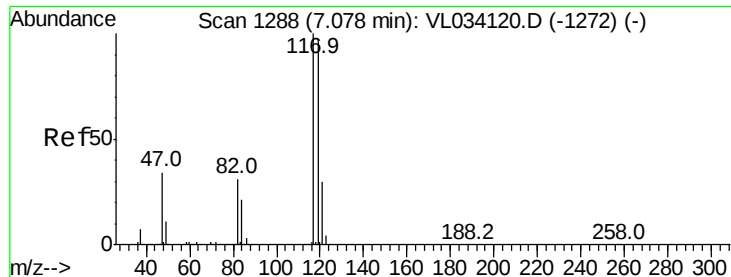
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#34
2-Butanone
Concen: 12.735 ppbv
RT: 5.28 min Scan# 729
Delta R.T. 0.00 min
Lab File: VL034126.D
Acq: 5 Sep 2019 6:26

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.2	16.5	24.7





#35

Carbon Tetrachloride

Concen: 12.802 ppbv

RT: 7.08 min Scan# 1288

Delta R.T. -0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 2140305

Ion Ratio Lower Upper

117 100

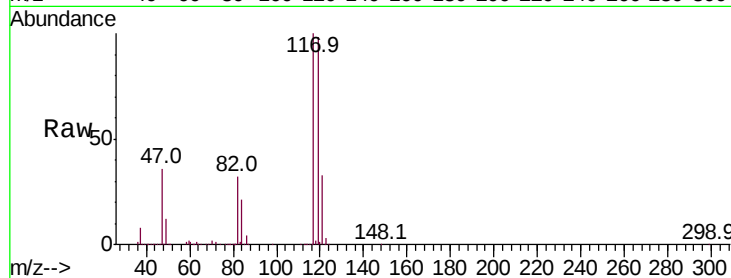
119 97.8 77.2 115.8

121 32.7 24.2 36.4

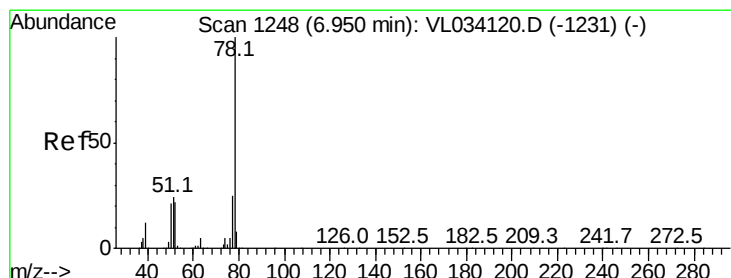
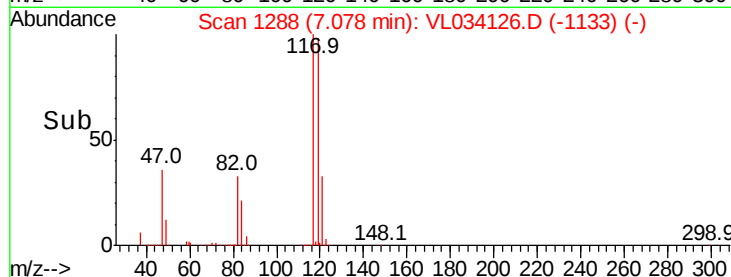
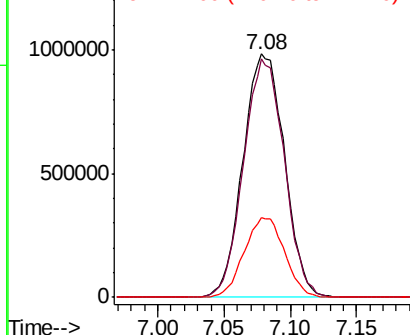
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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 12.504 ppbv

RT: 6.95 min Scan# 1249

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

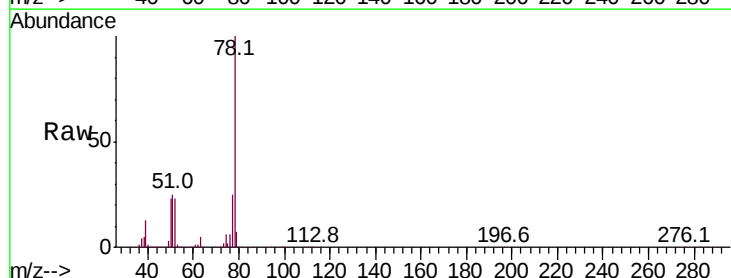
Tgt Ion: 78 Resp: 3090620

Ion Ratio Lower Upper

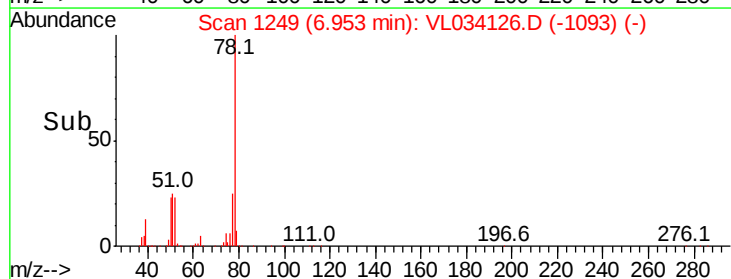
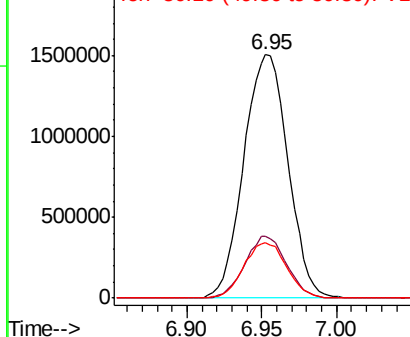
78 100

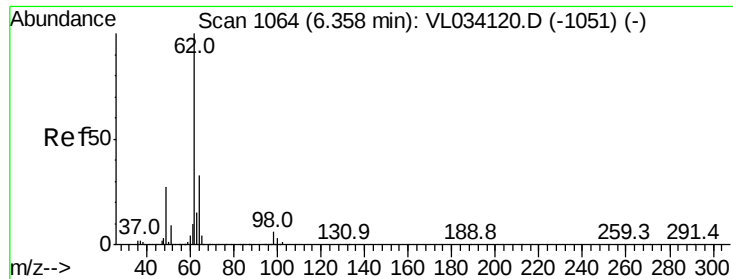
77 25.2 20.3 30.5

50 22.7 16.9 25.3



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





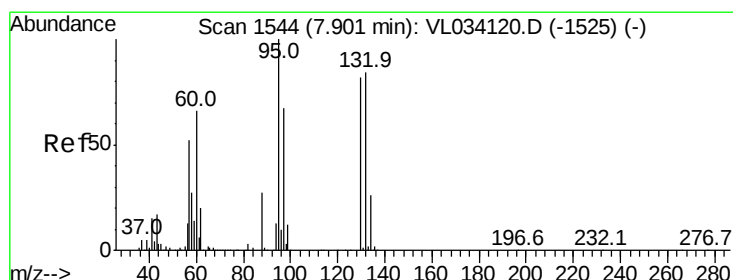
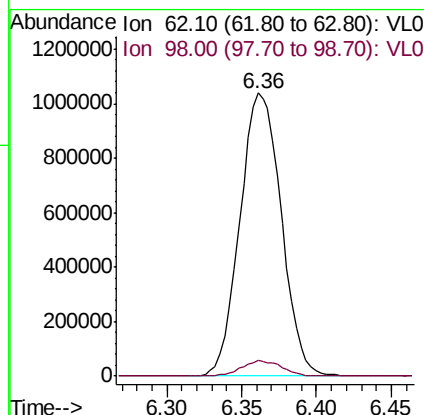
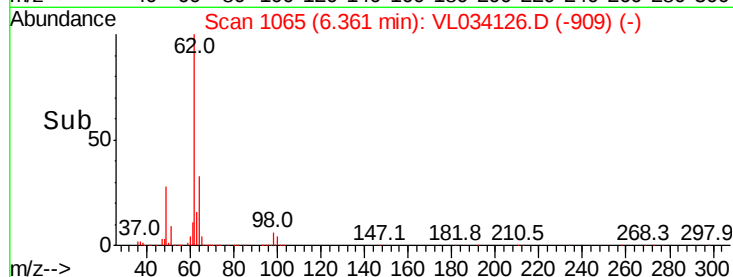
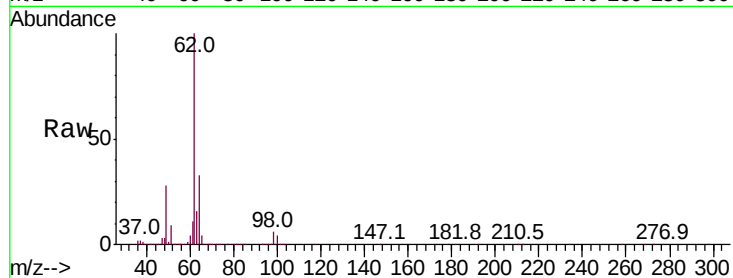
#37
 1,2-Dichloroethane
 Concen: 13.175 ppbv
 RT: 6.36 min Scan# 1065
 Delta R.T. 0.00 min
 Lab File: VL034126.D
 Acq: 5 Sep 2019 6:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 62 Resp: 1995262
 Ion Ratio Lower Upper
 62 100
 98 5.4 4.4 6.6

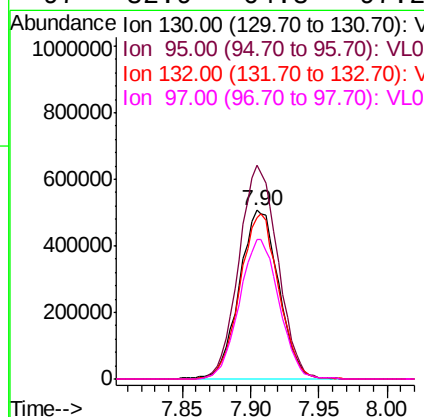
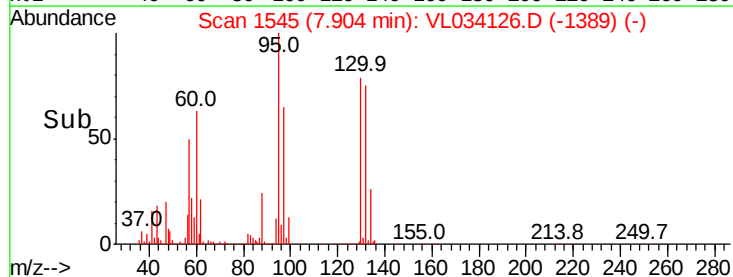
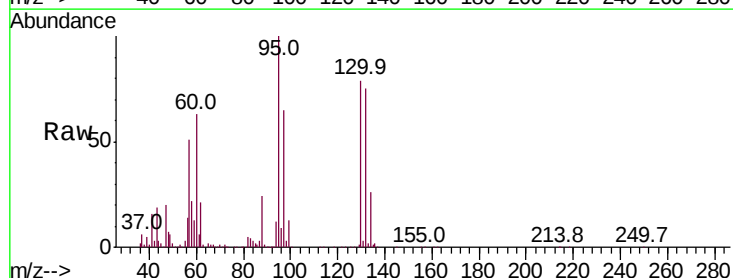
Manual Integrations
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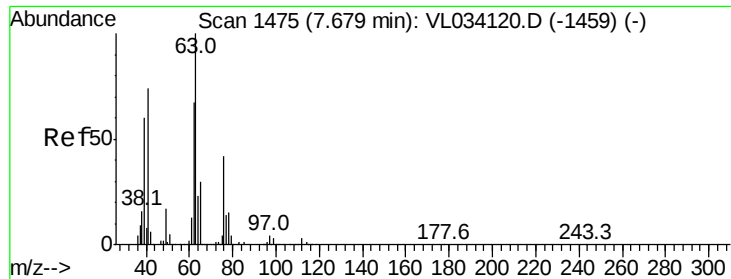
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#38
 Trichloroethene
 Concen: 11.070 ppbv
 RT: 7.90 min Scan# 1545
 Delta R.T. 0.00 min
 Lab File: VL034126.D
 Acq: 5 Sep 2019 6:26

Tgt Ion: 130 Resp: 1011900
 Ion Ratio Lower Upper
 130 100
 95 126.7 97.2 145.8
 132 95.6 81.4 122.2
 97 82.9 64.8 97.2





#39

1,2-Dichloropropane

Concen: 13.039 ppbv

RT: 7.68 min Scan# 1476

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 63 Resp: 1379980

Ion Ratio Lower Upper

63 100

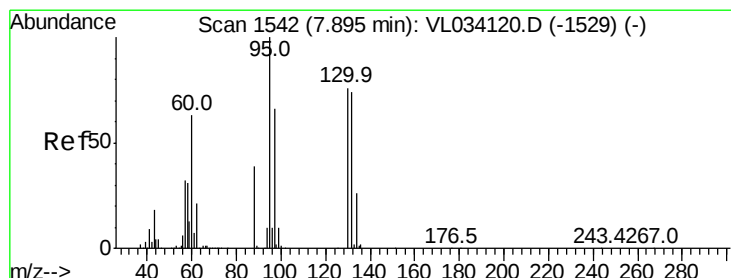
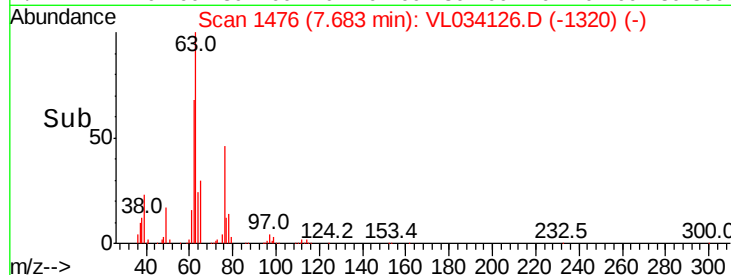
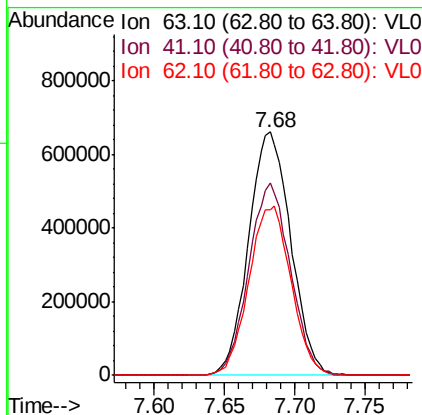
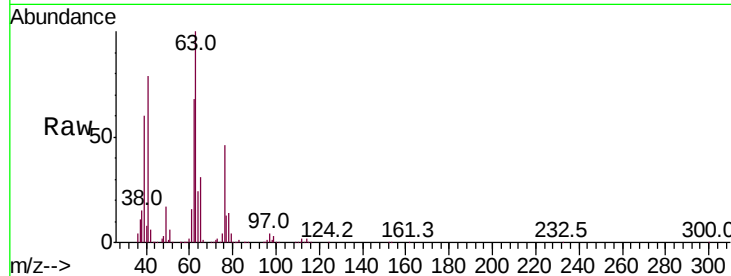
41 78.8 59.3 88.9

62 67.7 53.8 80.6

Manual Integrations
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#40

1,4-Dioxane

Concen: 10.621 ppbv

RT: 7.89 min Scan# 1542

Delta R.T. -0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Tgt Ion: 88 Resp: 414588

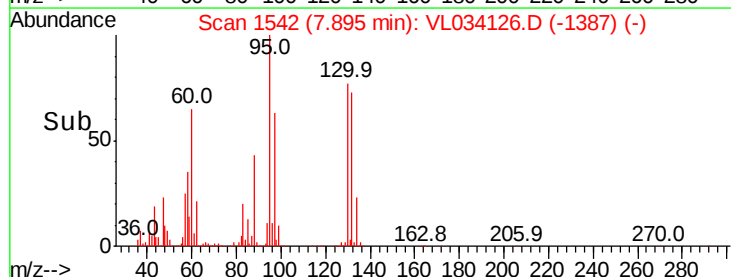
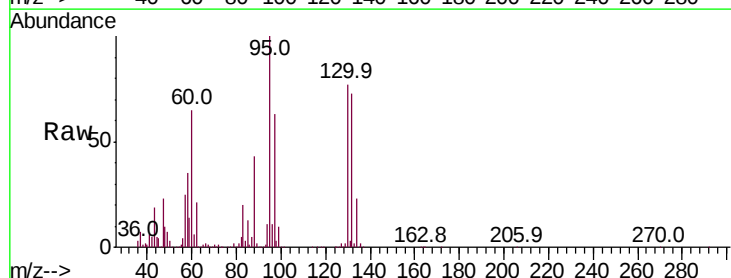
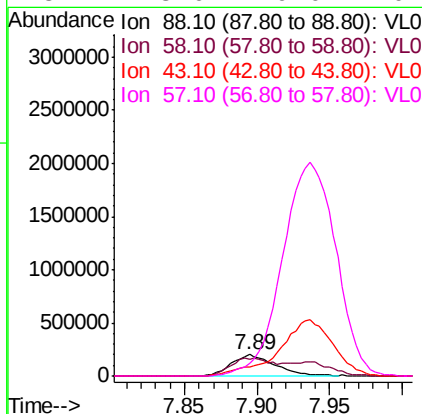
Ion Ratio Lower Upper

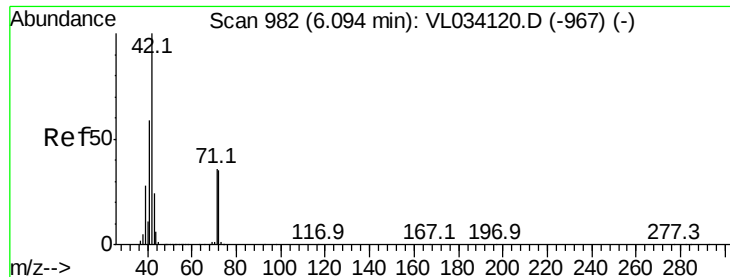
88 100

58 151.0 121.7 182.5

43 327.8 0.0 0.0#

57 1248.0 0.0 0.0#





#41

Tetrahydrofuran

Concen: 13.515 ppbv

RT: 6.09 min Scan# 982

Delta R.T. -0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 42 Resp: 1677345

Ion Ratio Lower Upper

42 100

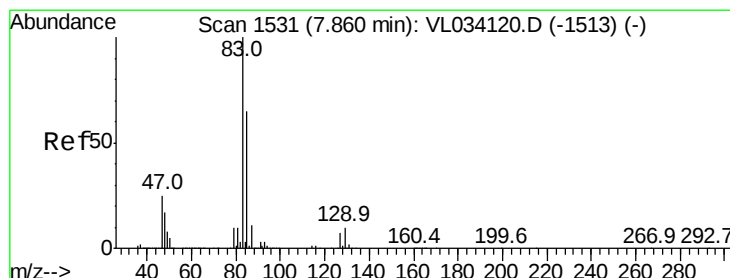
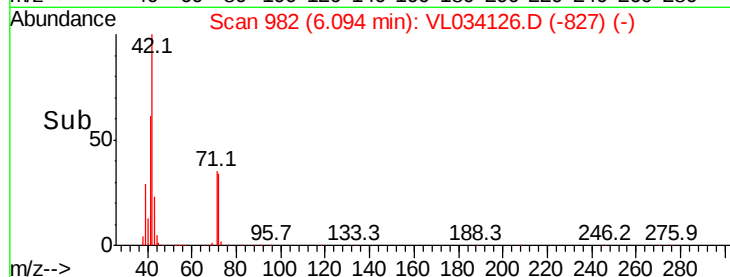
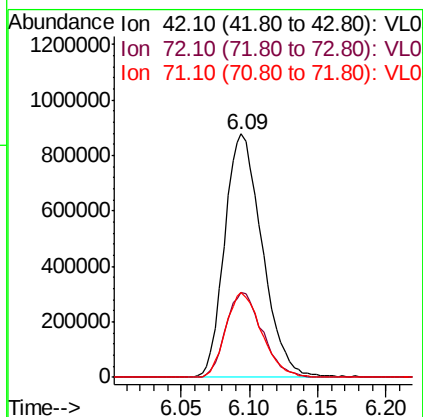
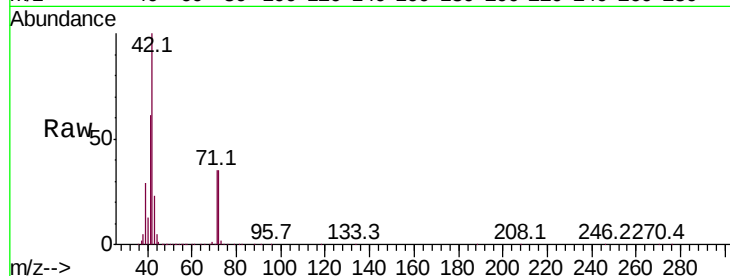
72 34.2 27.7 41.5

71 33.6 26.7 40.1

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#42

Bromodichloromethane

Concen: 13.121 ppbv

RT: 7.86 min Scan# 1532

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

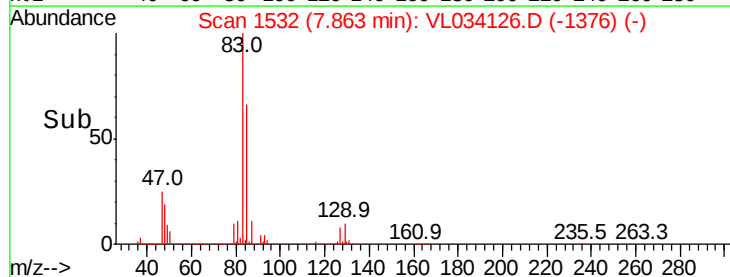
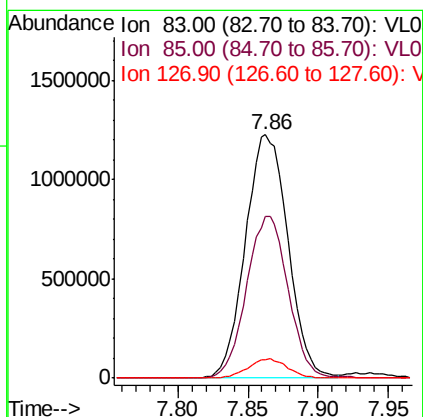
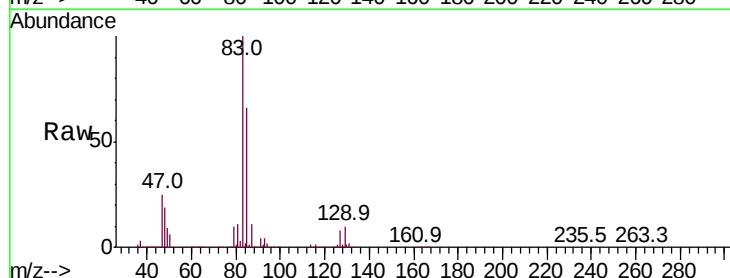
Tgt Ion: 83 Resp: 2593009

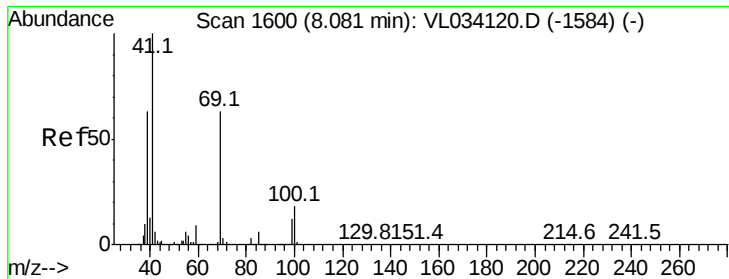
Ion Ratio Lower Upper

83 100

85 66.2 51.6 77.4

127 7.7 5.4 8.0





#43

Methyl Methacrylate

Concen: 13.620 ppbv

RT: 8.08 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

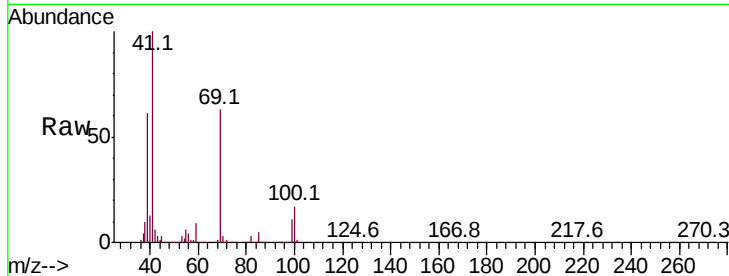
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 69 Resp: 1386891

Ion	Ratio	Lower	Upper
69	100		
41	165.7	131.0	196.6
100	28.7	22.6	33.8

Manual Integrations
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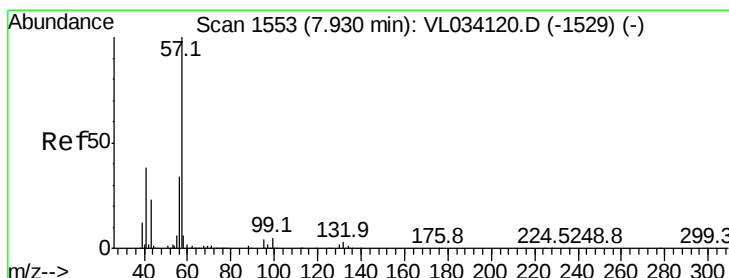
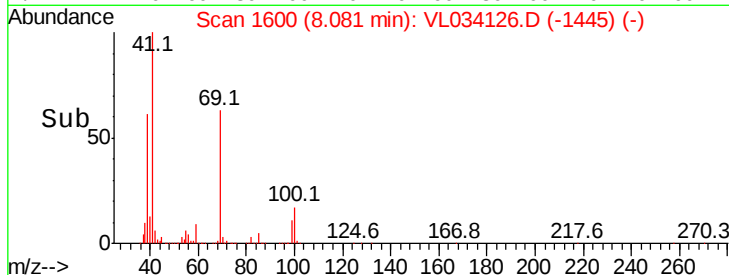
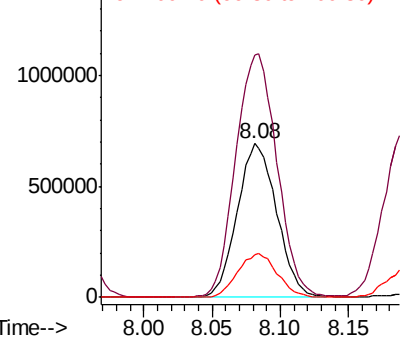
MMDadoda
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Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 11.346 ppbv

RT: 7.94 min Scan# 1555

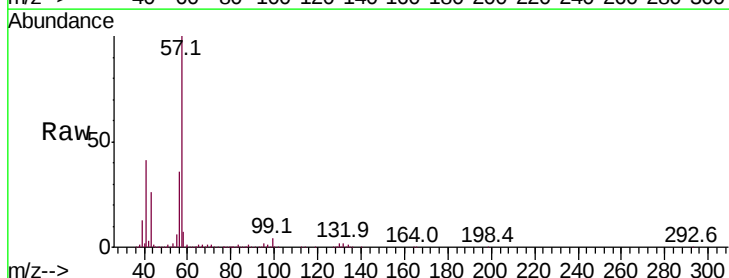
Delta R.T. 0.01 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Tgt Ion: 57 Resp: 5170134

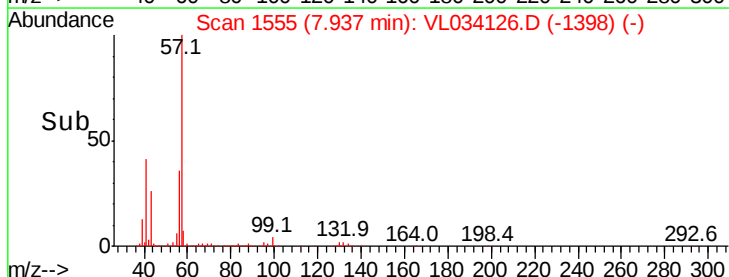
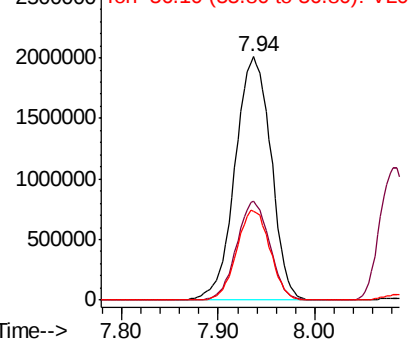
Ion	Ratio	Lower	Upper
57	100		
41	37.3	28.4	42.6
56	34.2	26.3	39.5

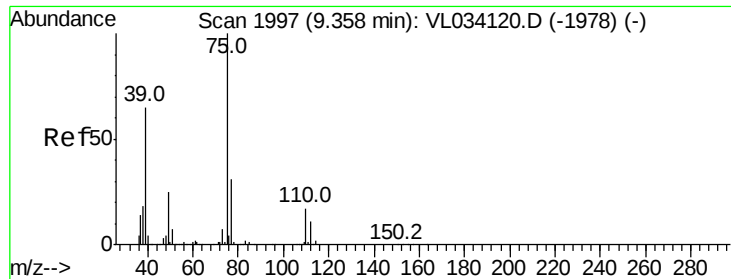


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#45

t-1,3-Dichloropropene

Concen: 15.357 ppbv

RT: 9.36 min Scan# 1997

Delta R.T. -0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 75 Resp: 1835425

Ion Ratio Lower Upper

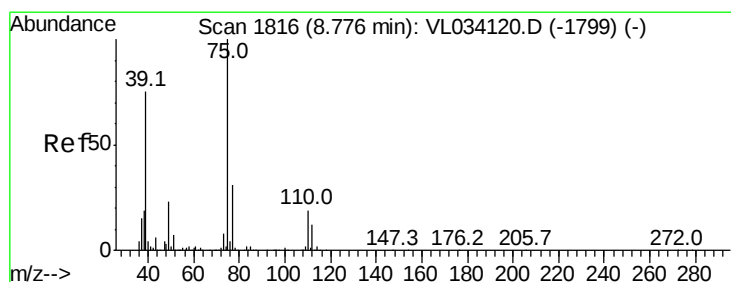
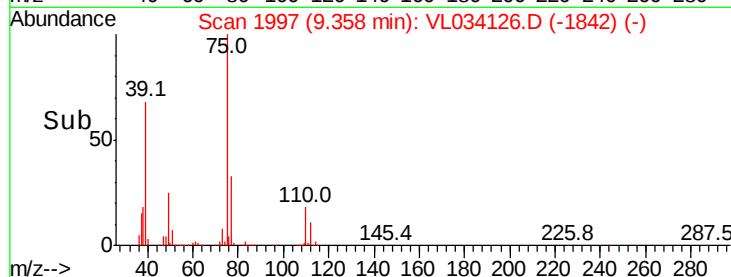
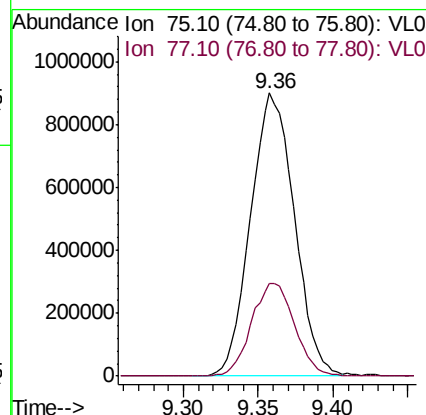
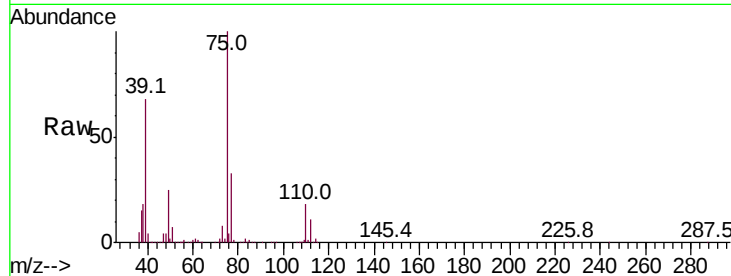
75 100

77 32.9 24.6 36.8

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#46

cis-1,3-Dichloropropene

Concen: 14.025 ppbv

RT: 8.78 min Scan# 1817

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

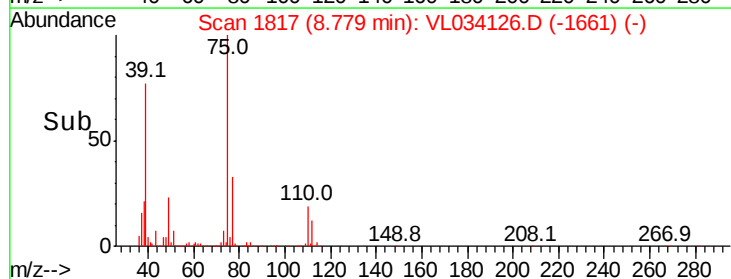
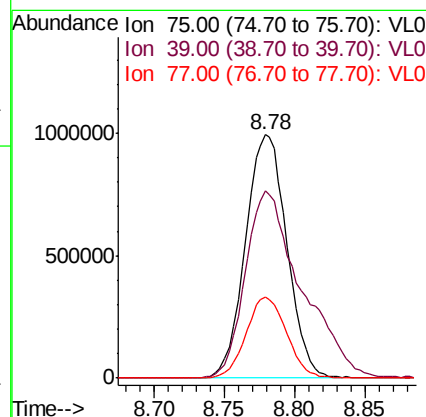
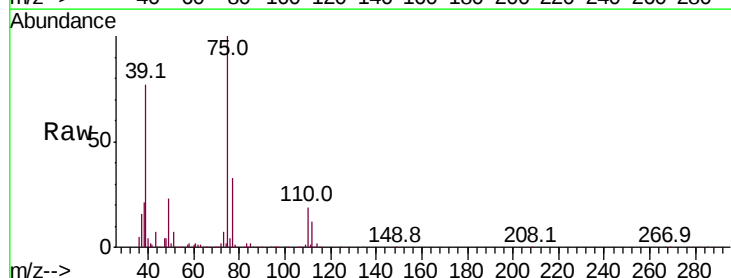
Tgt Ion: 75 Resp: 2042096

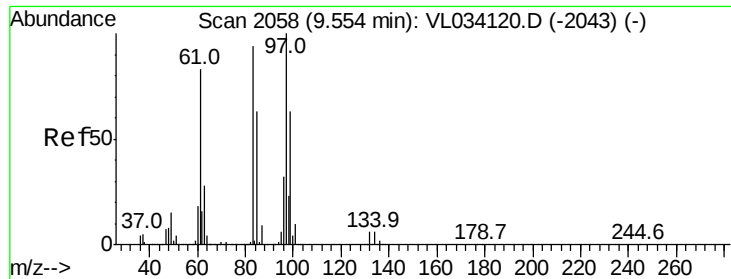
Ion Ratio Lower Upper

75 100

39 76.7 60.0 90.0

77 33.1 24.8 37.2





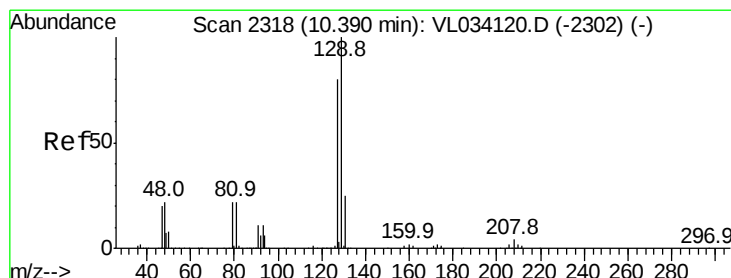
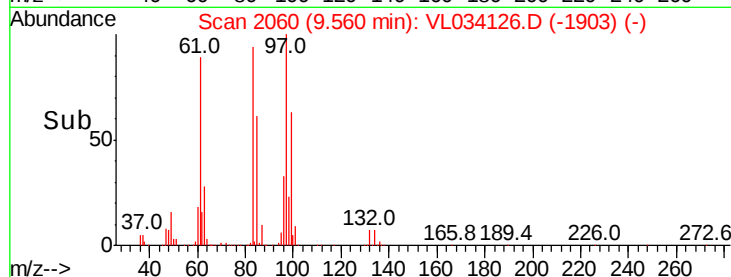
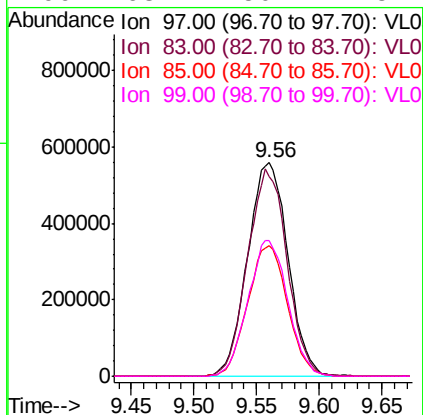
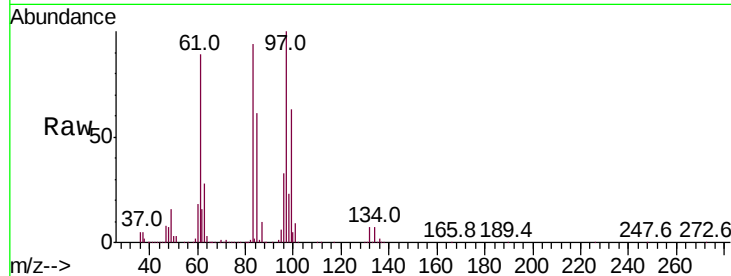
#47
 1,1,2-Trichloroethane
 Concen: 13.016 ppbv
 RT: 9.56 min Scan# 2060
 Delta R.T. 0.01 min
 Lab File: VL034126.D
 Acq: 5 Sep 2019 6:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
97	100		
83	93.5	74.9	112.3
85	60.9	50.6	75.8
99	63.4	50.2	75.2

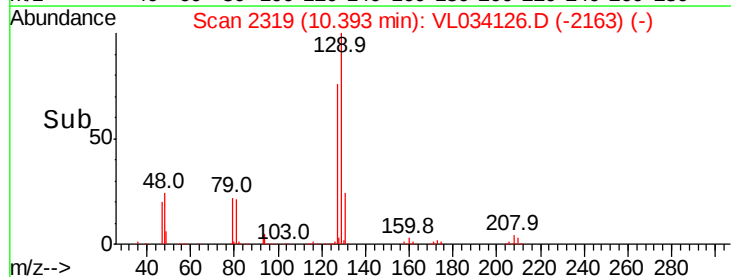
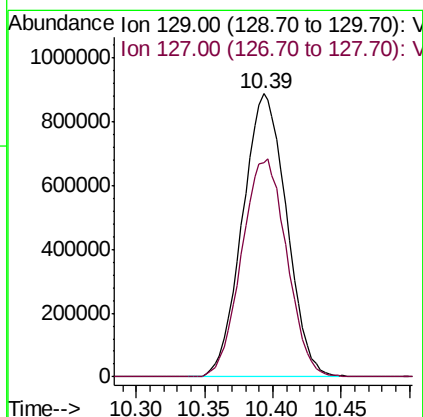
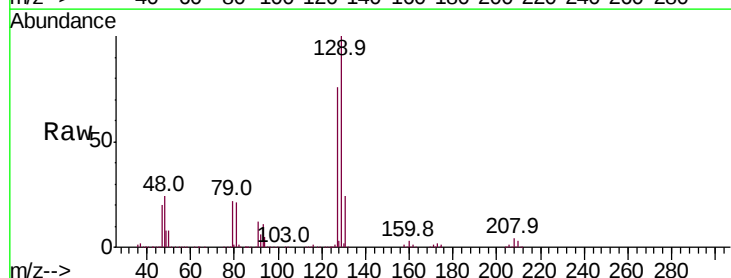
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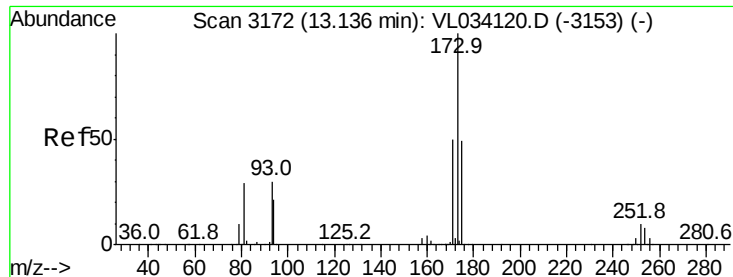
MMDadoda
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#48
 Dibromochloromethane
 Concen: 13.826 ppbv
 RT: 10.39 min Scan# 2319
 Delta R.T. 0.00 min
 Lab File: VL034126.D
 Acq: 5 Sep 2019 6:26

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.8	40.2	120.6





#49

Bromoform

Concen: 13.935 ppbv

RT: 13.14 min Scan# 3173

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:173 Resp: 1754367

Ion Ratio Lower Upper

173 100

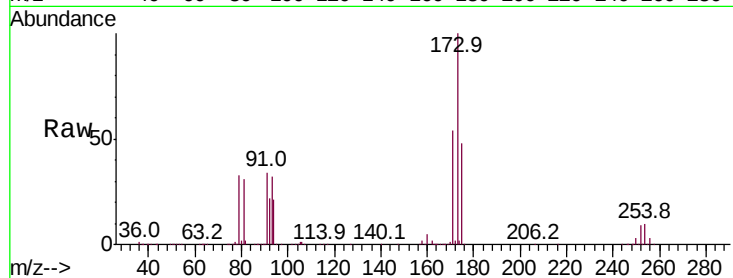
175 49.5 40.0 60.0

171 52.9 42.2 63.2

Manual Integrations
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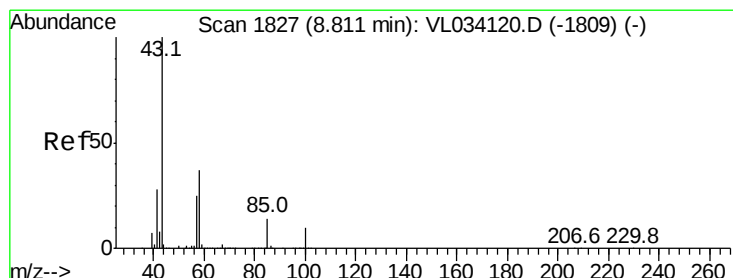
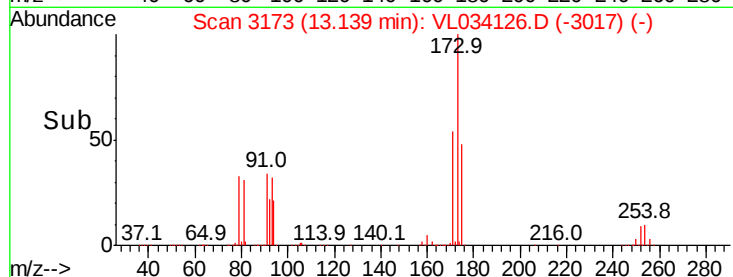
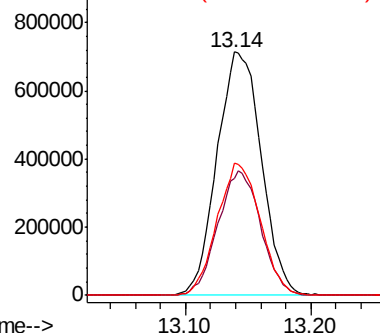
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 11.938 ppbv

RT: 8.81 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VL034126.D

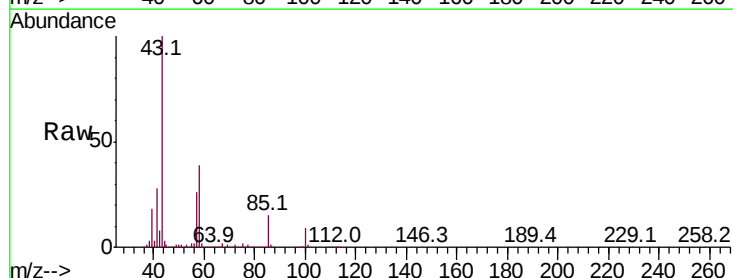
Acq: 5 Sep 2019 6:26

Tgt Ion: 43 Resp: 3787011

Ion Ratio Lower Upper

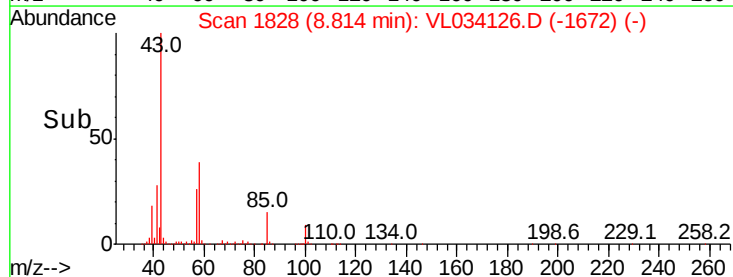
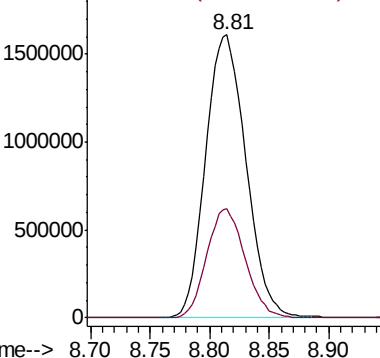
43 100

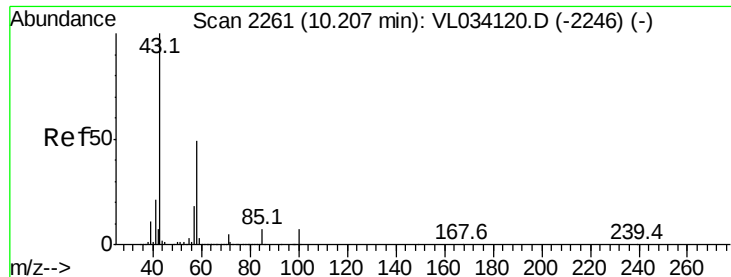
58 36.8 28.5 42.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





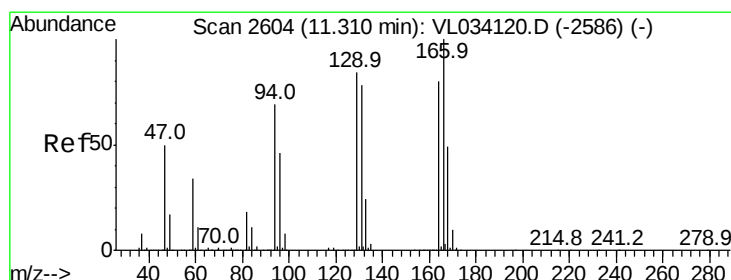
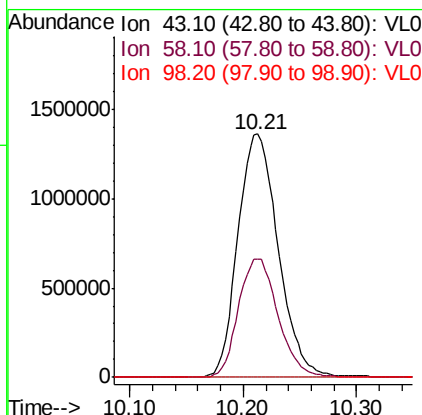
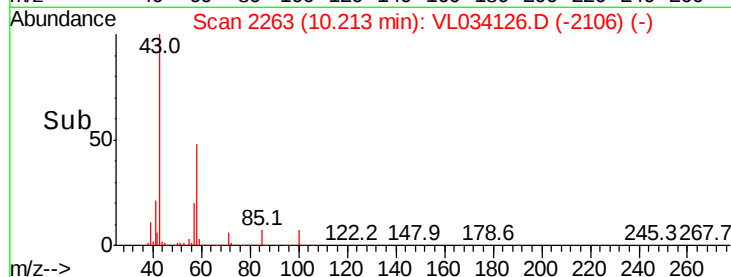
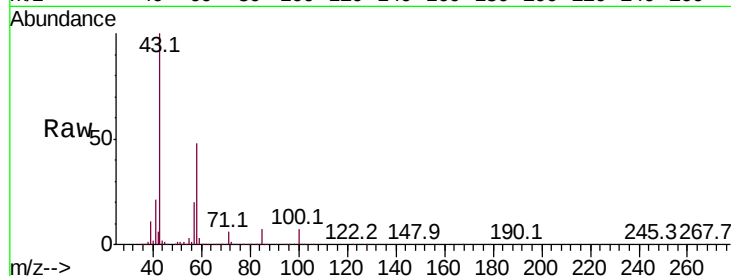
#51
2-Hexanone
Concen: 12.435 ppbv
RT: 10.21 min Scan# 2263
Delta R.T. 0.01 min
Lab File: VL034126.D
Acq: 5 Sep 2019 6:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 3375636
Ion Ratio Lower Upper
43 100
58 47.9 38.2 57.2
98 0.0 0.1 0.1#

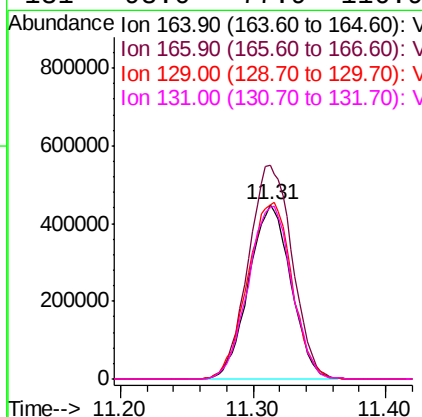
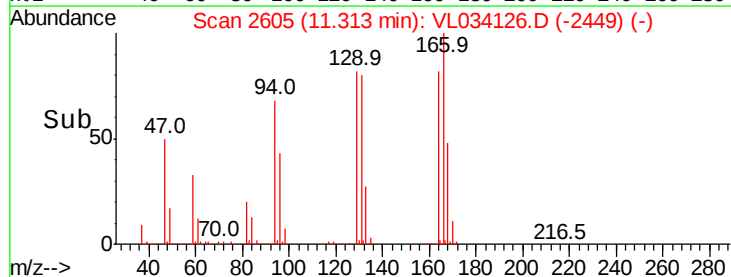
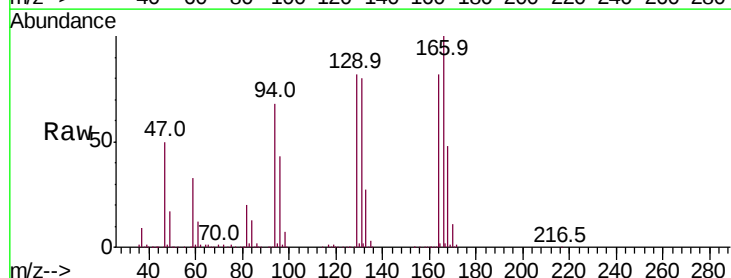
Manual Integrations
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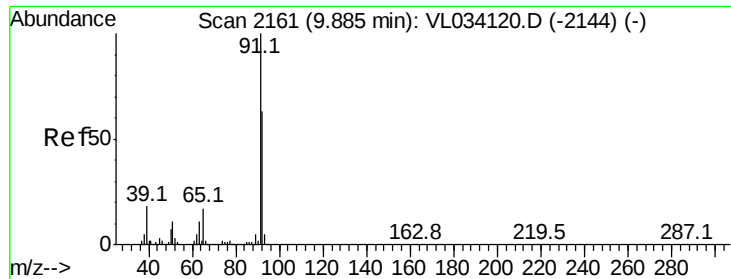
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#52
Tetrachloroethene
Concen: 11.511 ppbv
RT: 11.31 min Scan# 2605
Delta R.T. 0.00 min
Lab File: VL034126.D
Acq: 5 Sep 2019 6:26

Tgt Ion: 164 Resp: 995678
Ion Ratio Lower Upper
164 100
166 122.2 99.5 149.3
129 99.7 83.6 125.4
131 98.0 77.9 116.9





#53

Toluene

Concen: 12.494 ppbv

RT: 9.89 min Scan# 2162

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 3415350

Ion Ratio Lower Upper

91 100

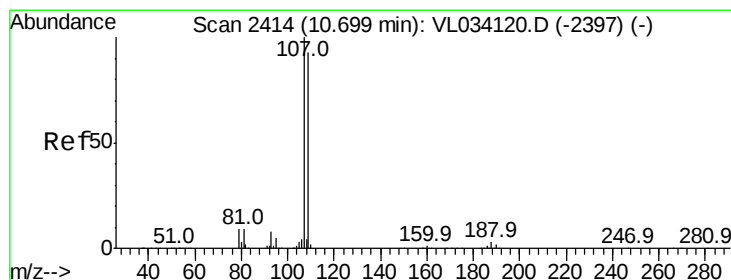
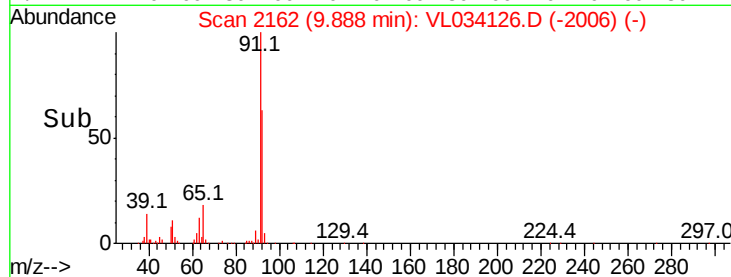
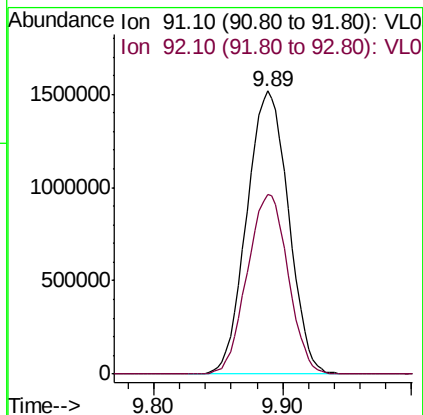
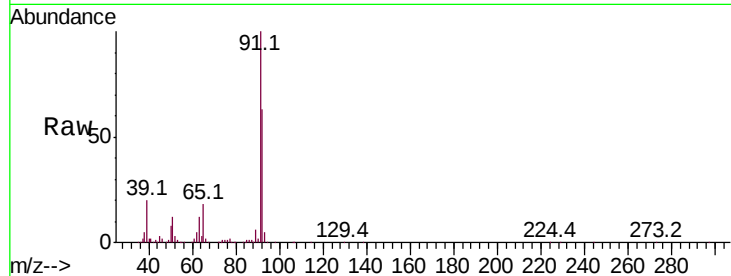
92 62.4 49.3 73.9

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 13.023 ppbv

RT: 10.70 min Scan# 2414

Delta R.T. -0.00 min

Lab File: VL034126.D

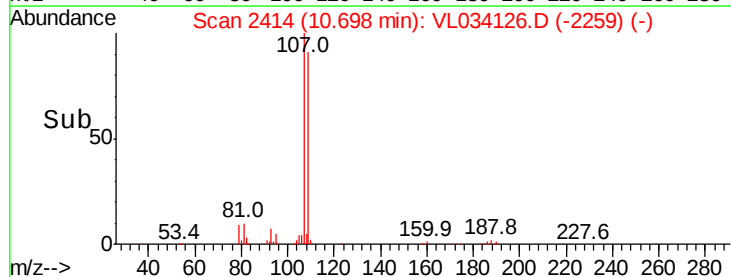
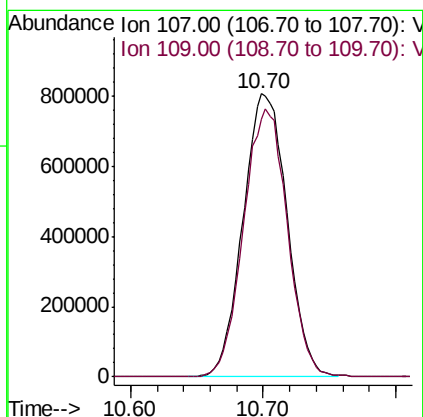
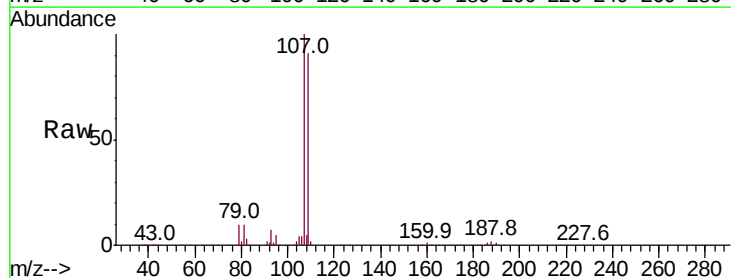
Acq: 5 Sep 2019 6:26

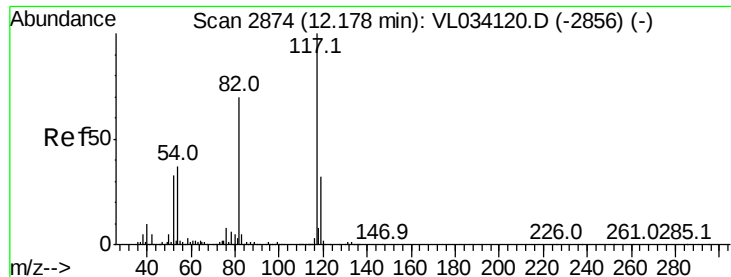
Tgt Ion: 107 Resp: 1864208

Ion Ratio Lower Upper

107 100

109 91.1 74.5 111.7





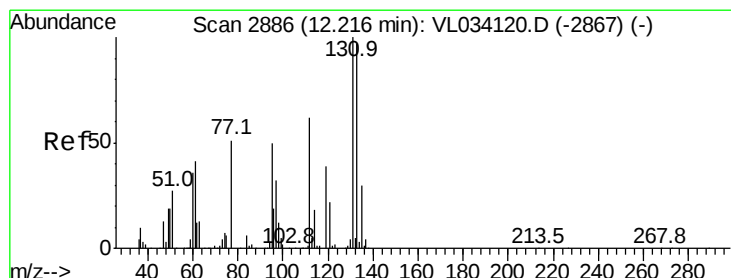
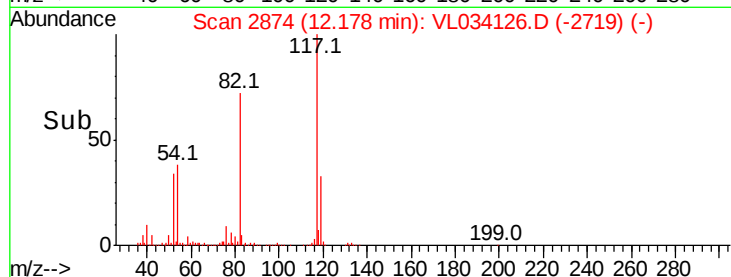
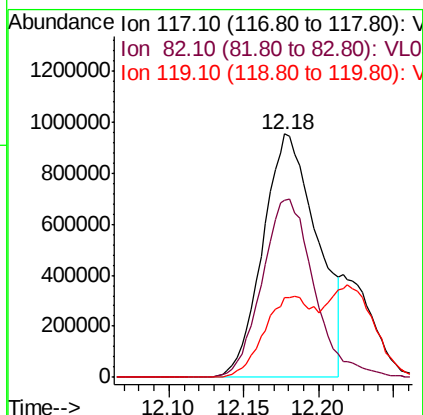
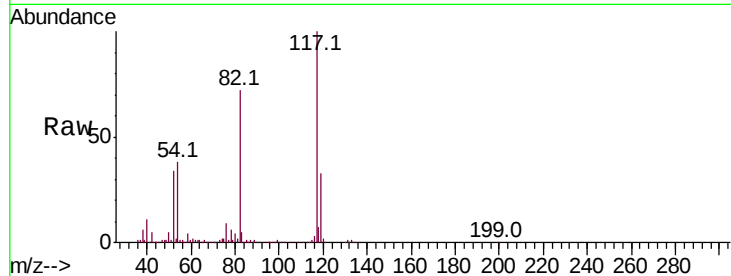
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.18 min Scan# 2874
Delta R.T. -0.00 min
Lab File: VL034126.D
Acq: 5 Sep 2019 6:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
117	100		
82	70.5	55.8	83.6
119	26.3	43.1	64.7#

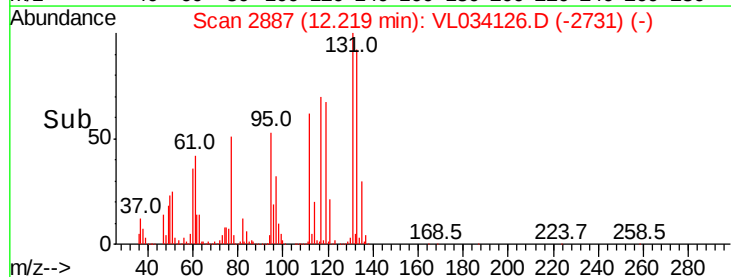
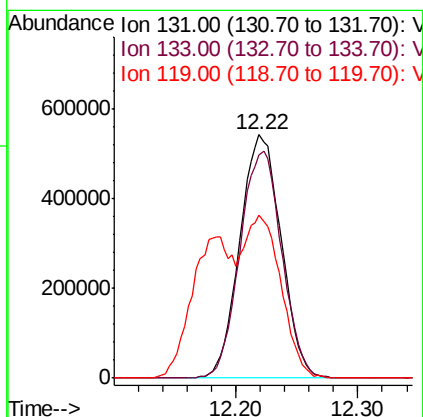
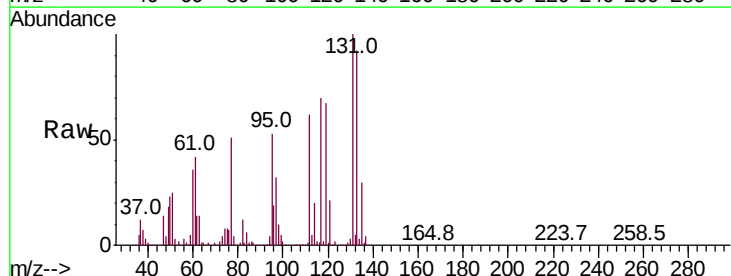
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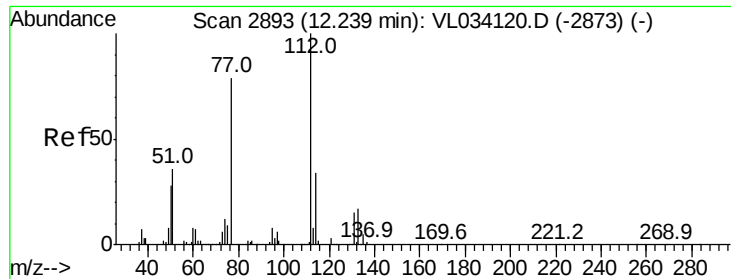
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 12.324 ppbv
RT: 12.22 min Scan# 2887
Delta R.T. 0.00 min
Lab File: VL034126.D
Acq: 5 Sep 2019 6:26

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.7	75.8	113.6
119	65.8	114.7	172.1#





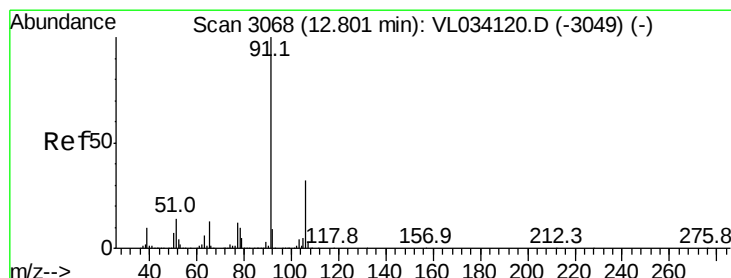
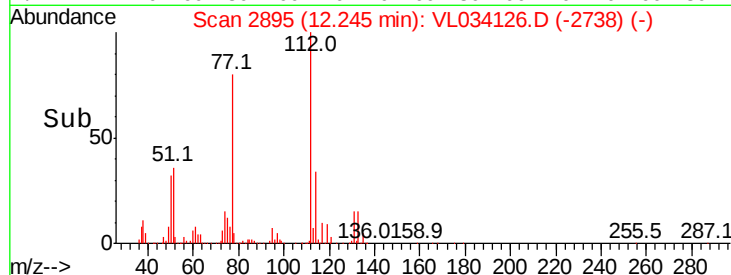
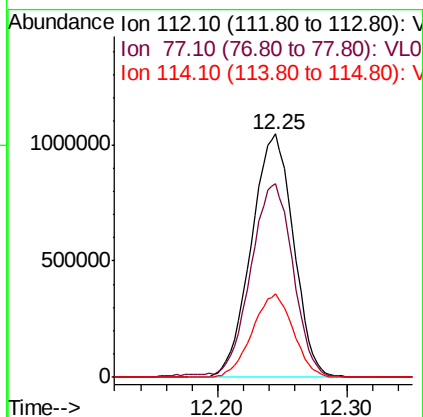
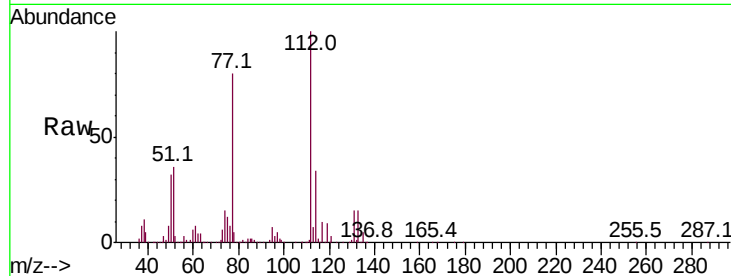
#57
Chlorobenzene
Concen: 11.518 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. 0.01 min
Lab File: VL034126.D
Acq: 5 Sep 2019 6:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
112	100		
77	79.2	64.4	96.6
114	34.3	30.3	37.1

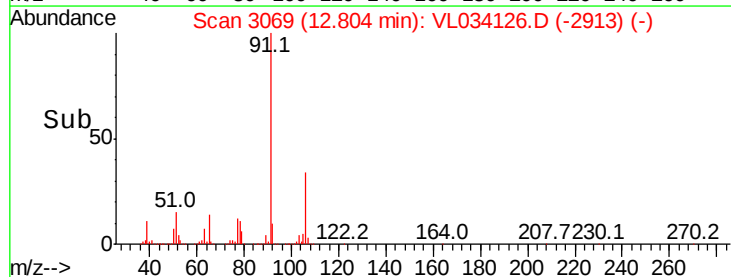
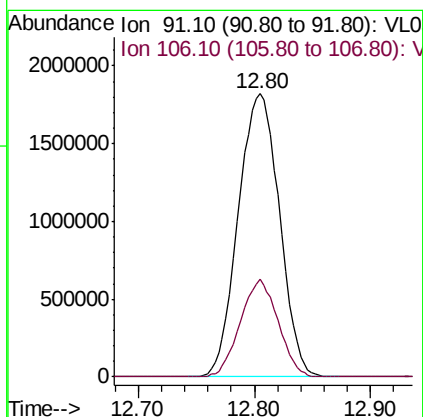
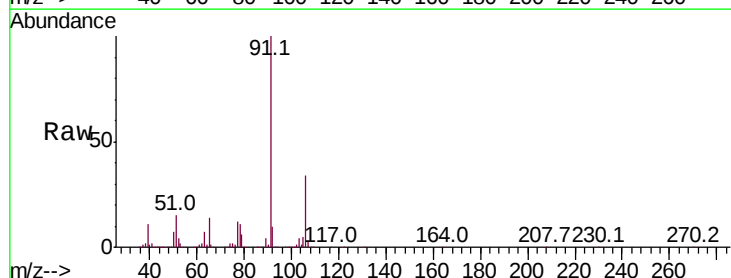
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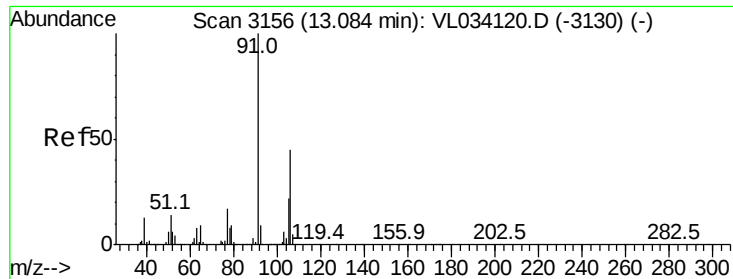
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#58
Ethyl Benzene
Concen: 11.404 ppbv
RT: 12.80 min Scan# 3069
Delta R.T. 0.00 min
Lab File: VL034126.D
Acq: 5 Sep 2019 6:26

Tgt Ion	Ratio	Lower	Upper
91	100		
106	34.4	25.3	37.9





#59

m/p-Xylene

Concen: 22.608 ppbv m

RT: 13.09 min Scan# 3159

Delta R.T. 0.01 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 7249077

Ion Ratio Lower Upper

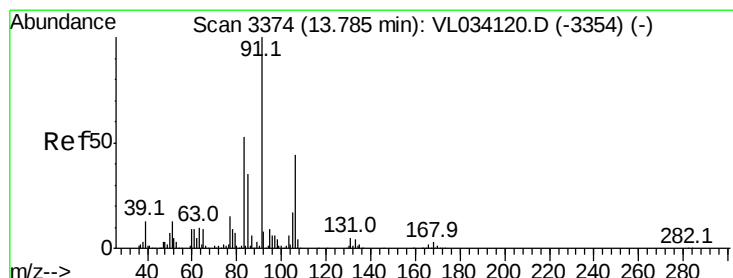
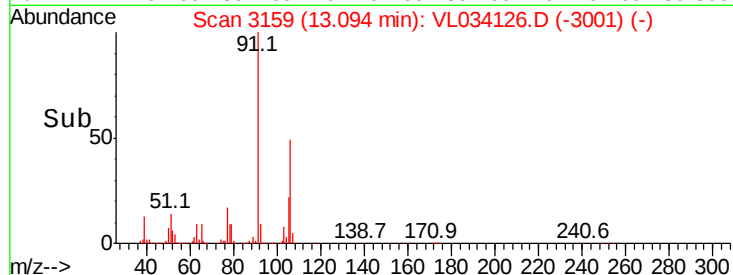
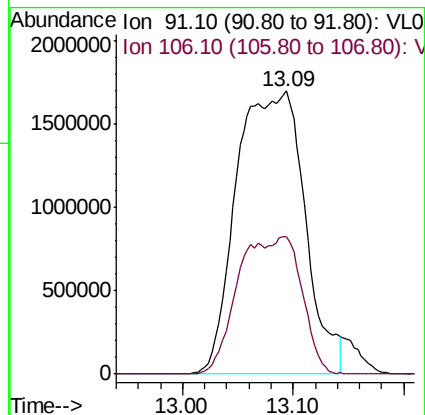
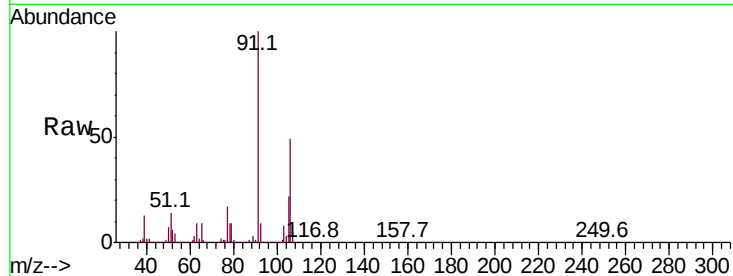
91 100

106 0.0 35.4 53.2#

Manual Integrations
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#60

o-Xylene

Concen: 11.132 ppbv

RT: 13.79 min Scan# 3375

Delta R.T. 0.00 min

Lab File: VL034126.D

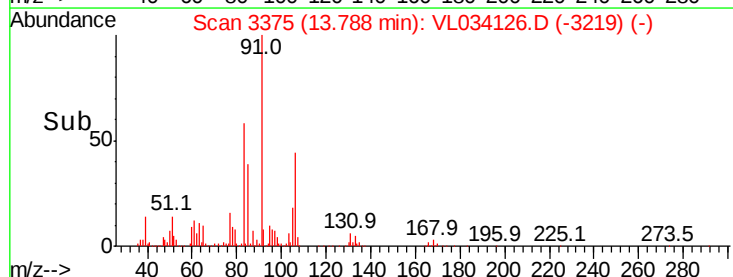
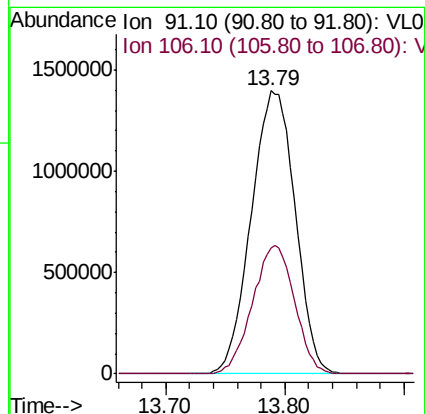
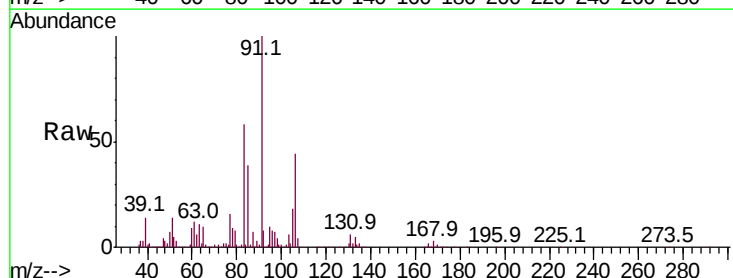
Acq: 5 Sep 2019 6:26

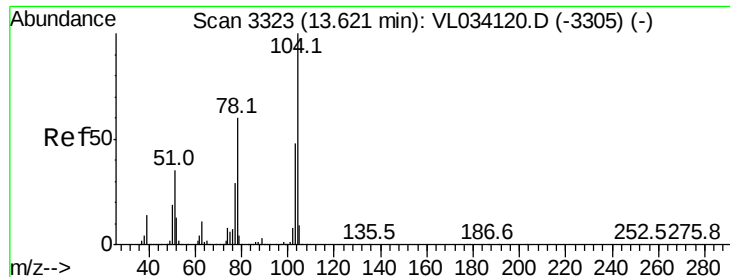
Tgt Ion: 91 Resp: 3564015

Ion Ratio Lower Upper

91 100

106 43.5 21.4 64.3





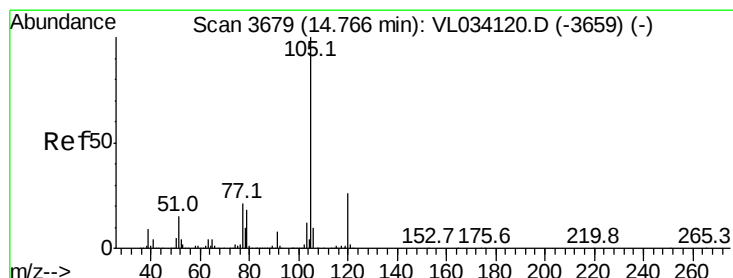
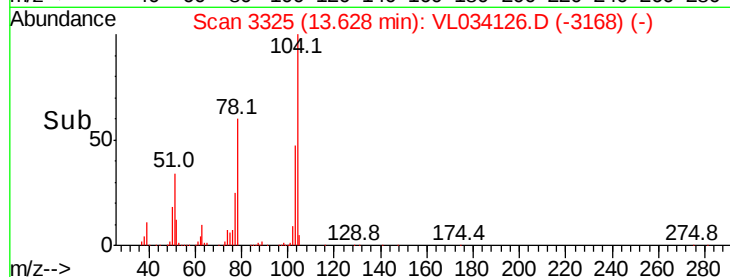
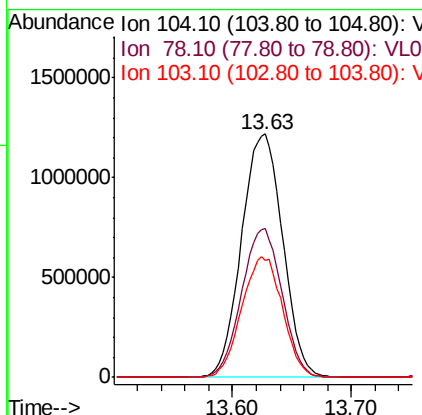
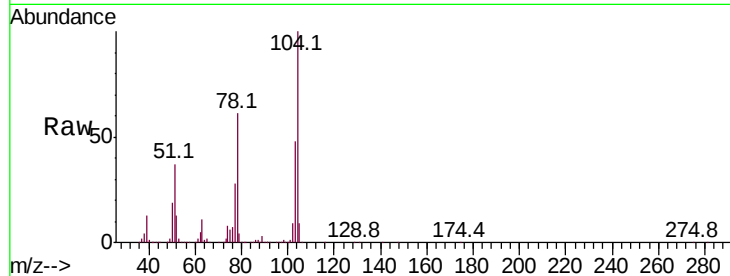
#61
Stvrene
Concen: 12.219 ppbv
RT: 13.63 min Scan# 3325
Delta R.T. 0.01 min
Lab File: VL034126.D
Acq: 5 Sep 2019 6:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
104	100		
78	60.1	47.8	71.6
103	48.9	38.7	58.1

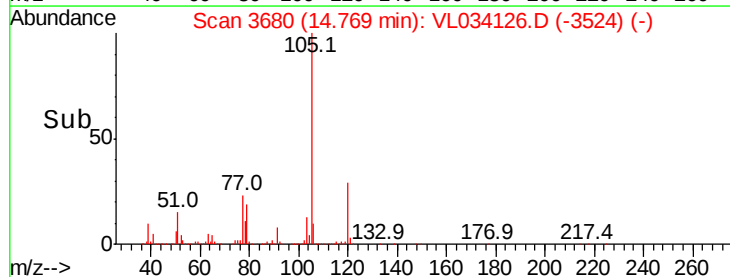
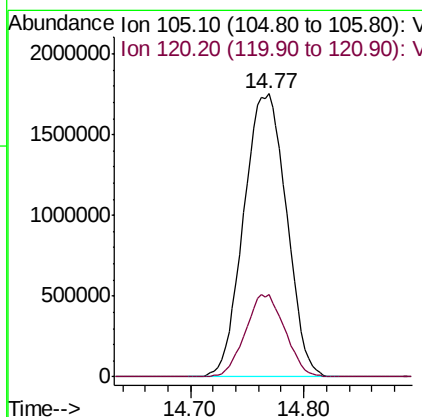
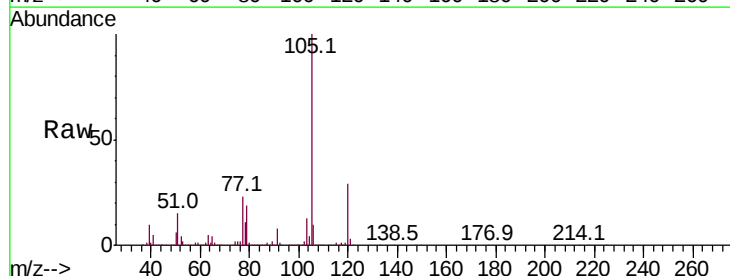
Manual Integrations
APPROVED

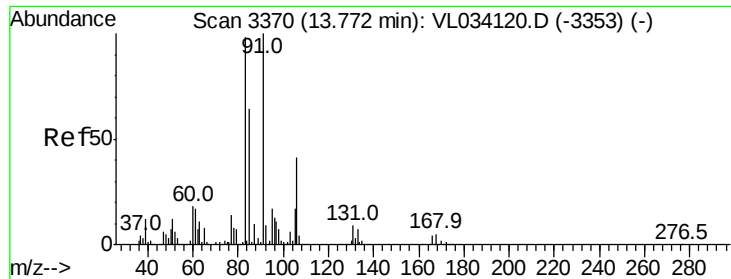
MMDadoda
9/12/2019 5:15:48 AM



#62
Isopropylbenzene
Concen: 11.056 ppbv
RT: 14.77 min Scan# 3680
Delta R.T. 0.00 min
Lab File: VL034126.D
Acq: 5 Sep 2019 6:26

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.0	20.6	31.0





#63

1,1,2,2-Tetrachloroethane

Concen: 9.883 ppbv

RT: 13.78 min Scan# 3371

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 83 Resp: 2588223

Ion Ratio Lower Upper

83 100

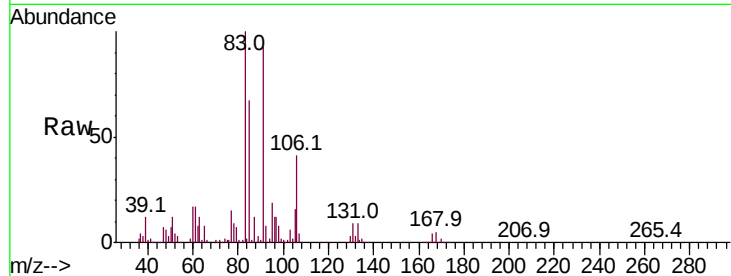
131 8.8 4.3 12.8

85 66.2 32.5 97.5

Manual Integrations
APPROVED

MMDadoda

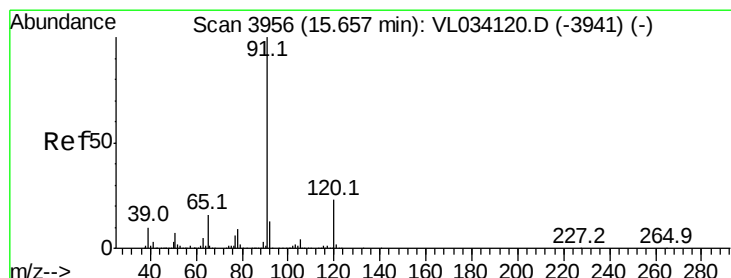
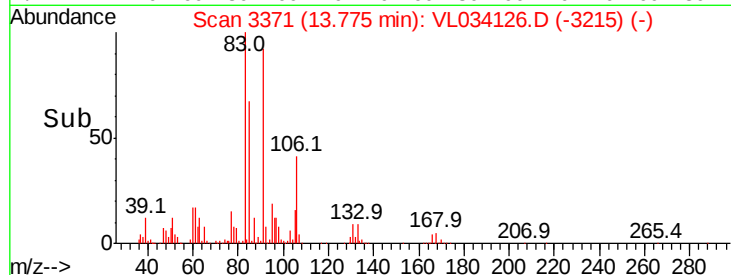
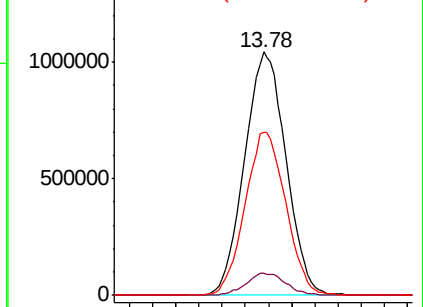
9/12/2019 5:15:48 AM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 12.047 ppbv

RT: 15.66 min Scan# 3958

Delta R.T. 0.01 min

Lab File: VL034126.D

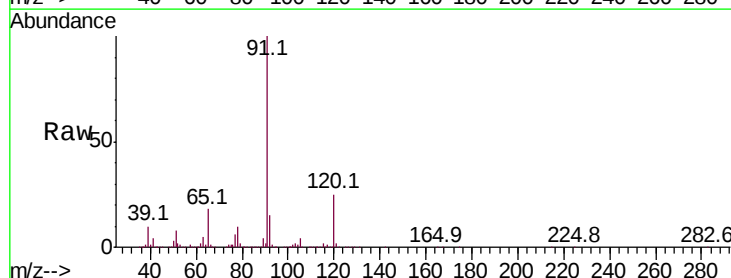
Acq: 5 Sep 2019 6:26

Tgt Ion:120 Resp: 1275313

Ion Ratio Lower Upper

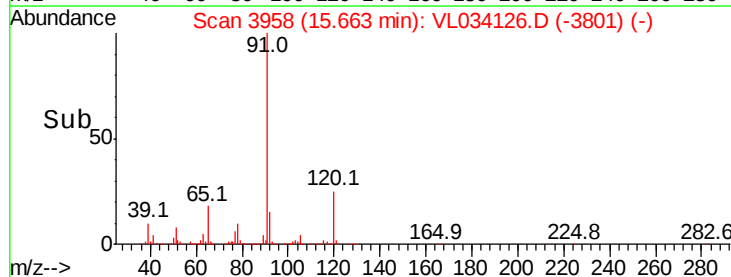
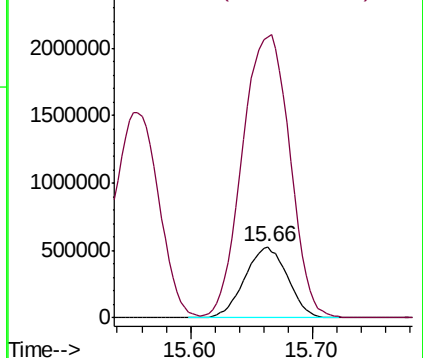
120 100

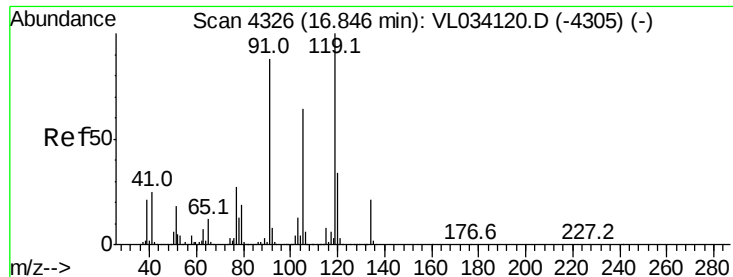
91 445.4 376.8 565.2



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 10.758 ppbv

RT: 16.85 min Scan# 4326

Delta R.T. -0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:119 Resp: 3858750

Ion Ratio Lower Upper

119 100

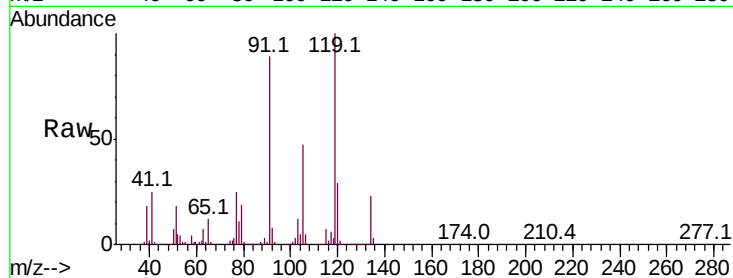
91 92.2 72.8 109.2

134 20.4 15.8 23.8

Manual Integrations
APPROVED

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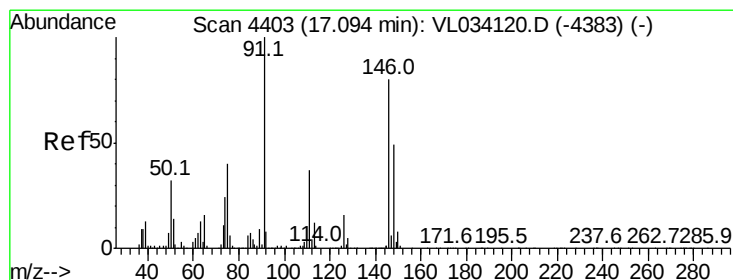
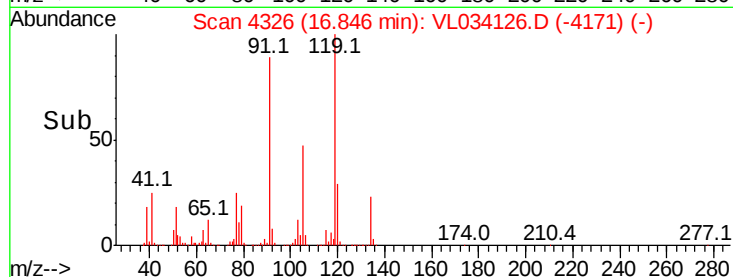
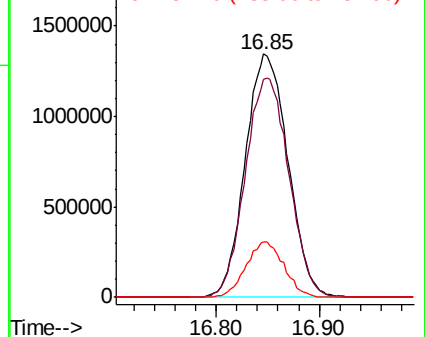
9/12/2019 5:15:48 AM



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: 16.504 ppbv

RT: 17.10 min Scan# 4404

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

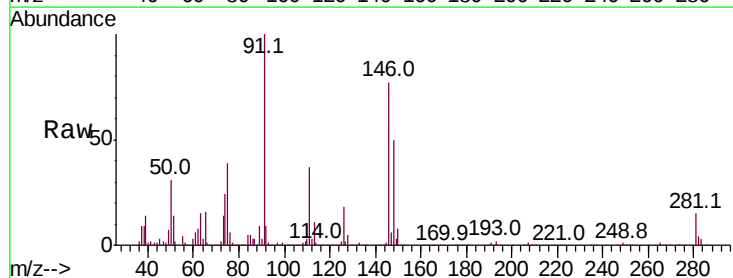
Tgt Ion: 91 Resp: 2181295

Ion Ratio Lower Upper

91 100

126 16.8 13.7 20.5

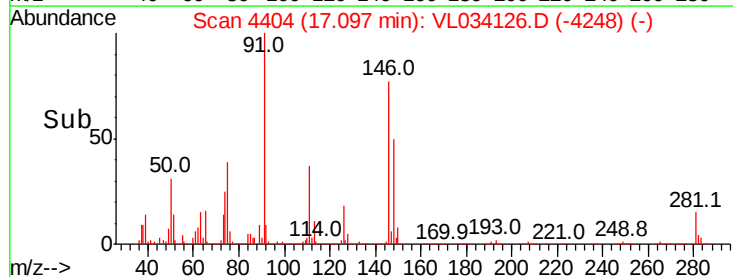
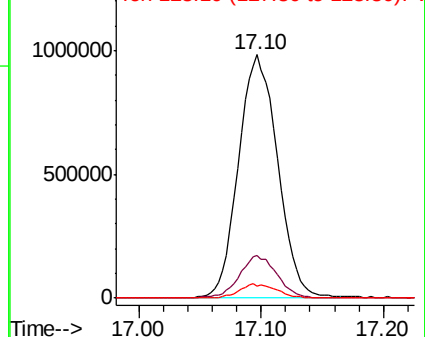
128 5.5 4.2 6.4

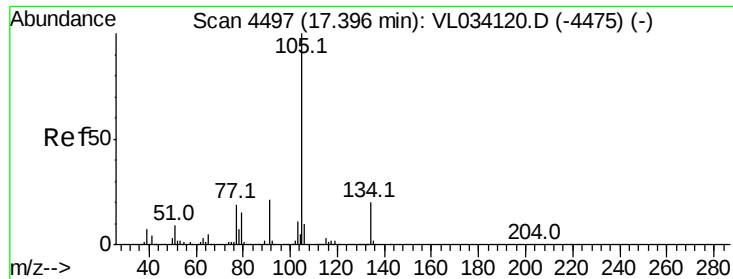


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





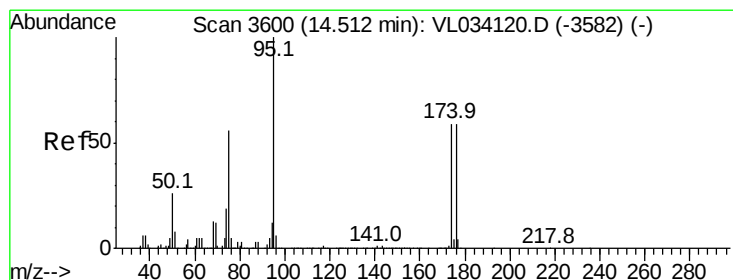
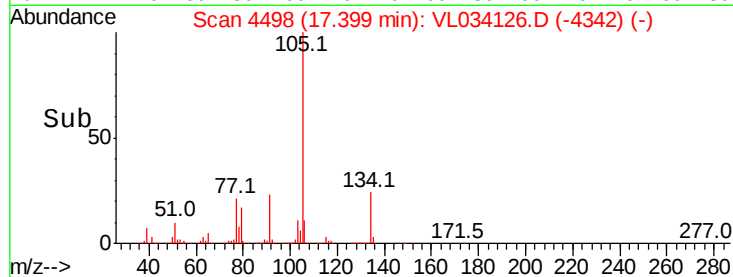
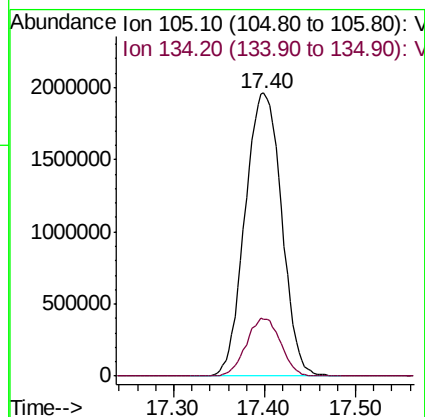
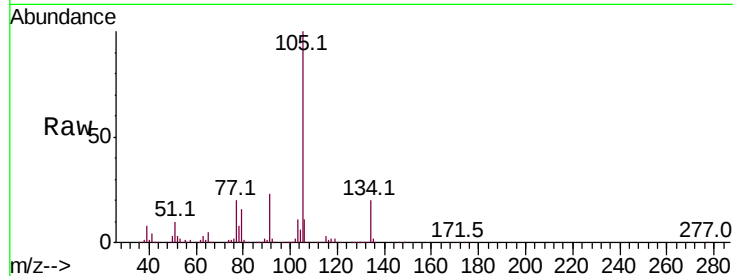
#67
 sec-Butylbenzene
 Concen: 10.610 ppbv
 RT: 17.40 min Scan# 4498
 Delta R.T. 0.00 min
 Lab File: VL034126.D
 Acq: 5 Sep 2019 6:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:105 Resp: 5483191
 Ion Ratio Lower Upper
 105 100
 134 19.3 15.0 22.4

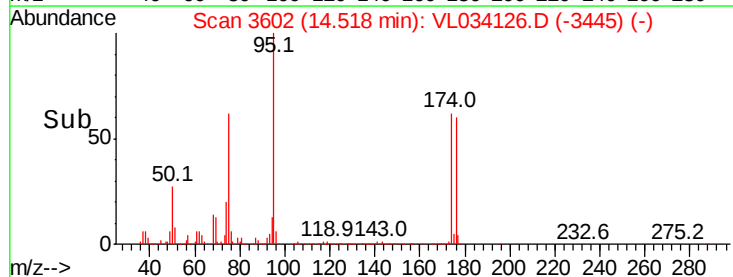
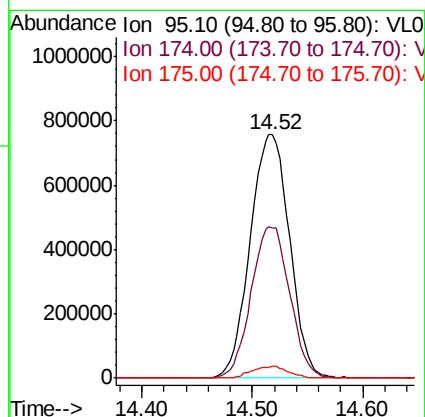
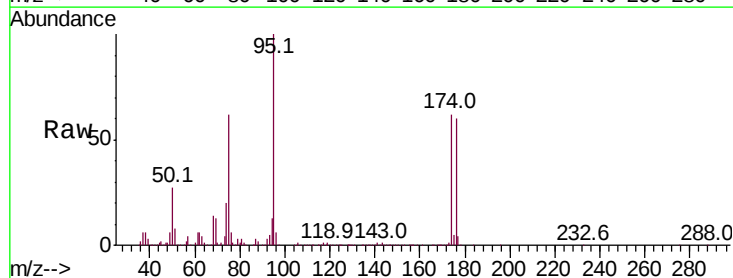
Manual Integrations
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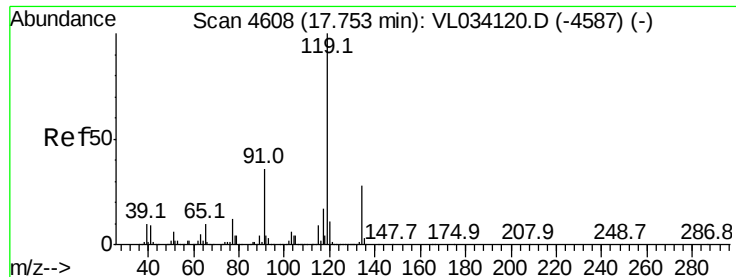
MMDadoda
 9/12/2019 5:15:48 AM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.524 ppbv
 RT: 14.52 min Scan# 3602
 Delta R.T. 0.01 min
 Lab File: VL034126.D
 Acq: 5 Sep 2019 6:26

Tgt Ion: 95 Resp: 1870998
 Ion Ratio Lower Upper
 95 100
 174 61.0 48.1 72.1
 175 4.5 3.5 5.3





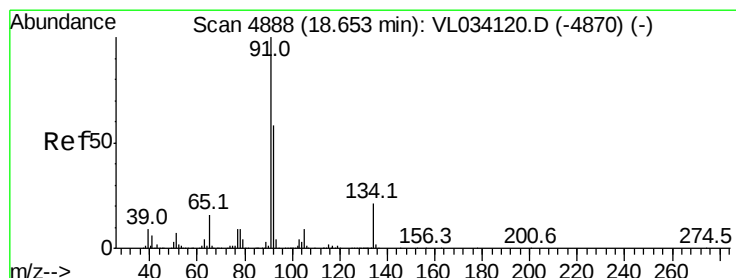
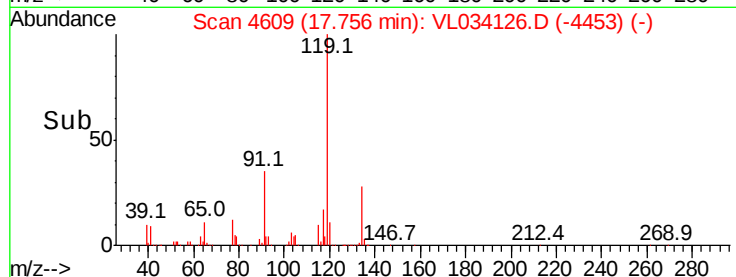
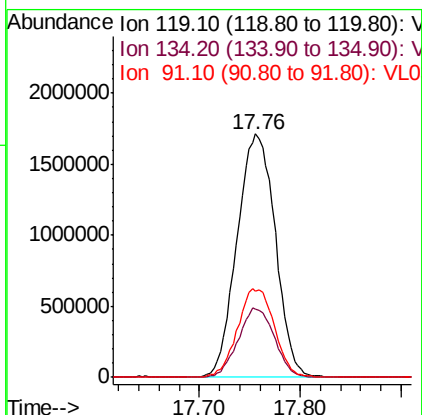
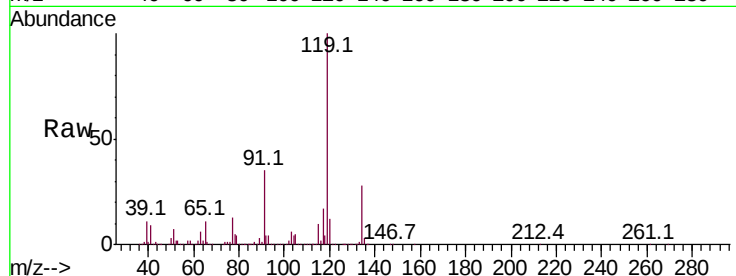
#69
 p-Isopropyltoluene
 Concen: 10.911 ppbv
 RT: 17.76 min Scan# 4609
 Delta R.T. 0.00 min
 Lab File: VL034126.D
 Acq: 5 Sep 2019 6:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
134	27.0	20.8	31.2
91	35.1	27.2	40.8

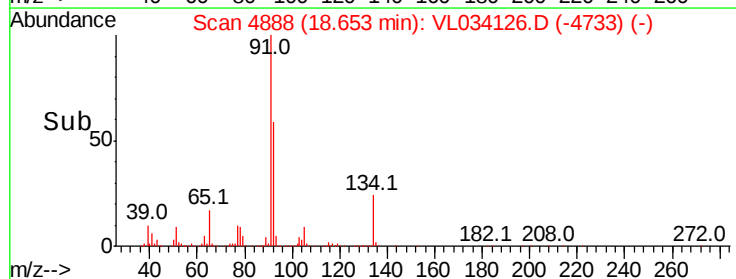
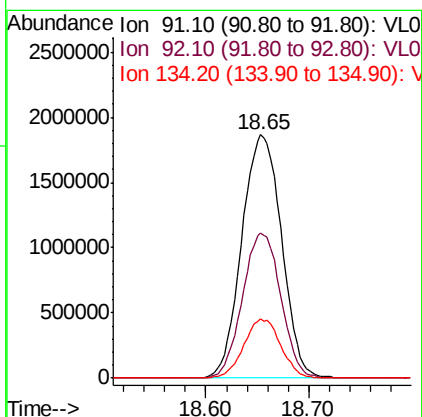
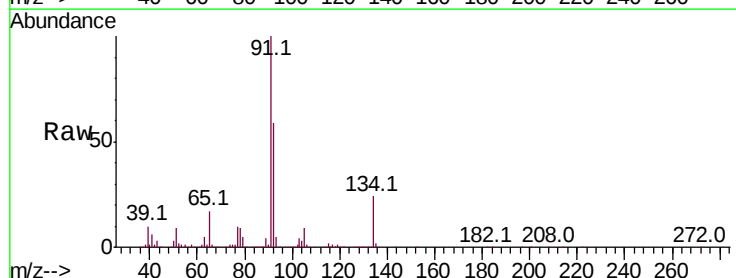
Manual Integrations
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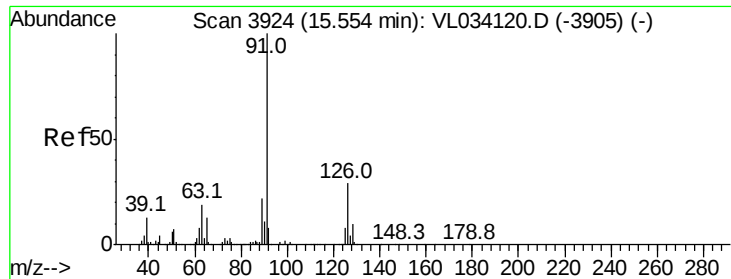
MMDadoda
 9/12/2019 5:15:48 AM



#70
 n-Butylbenzene
 Concen: 10.586 ppbv
 RT: 18.65 min Scan# 4888
 Delta R.T. -0.00 min
 Lab File: VL034126.D
 Acq: 5 Sep 2019 6:26

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.6	45.3	67.9
134	22.5	17.4	26.0





#71

2-Chlorotoluene

Concen: 11.369 ppbv

RT: 15.56 min Scan# 3925

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 3868777

Ion Ratio Lower Upper

91 100

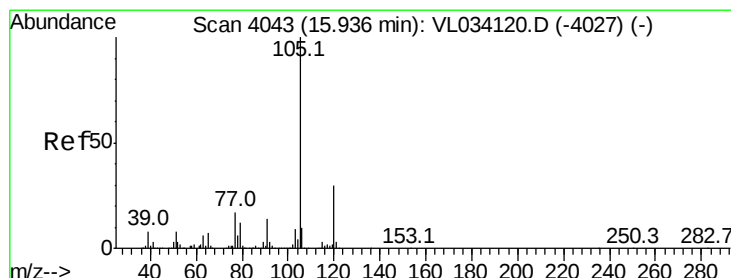
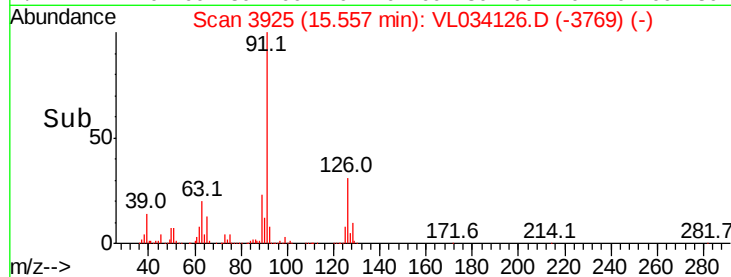
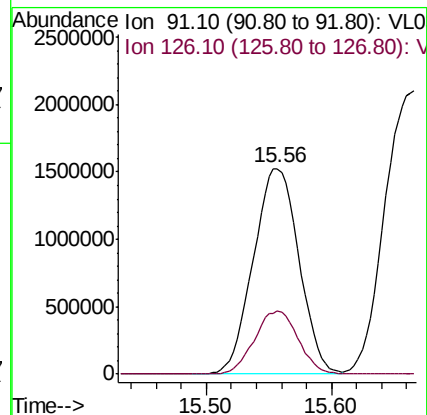
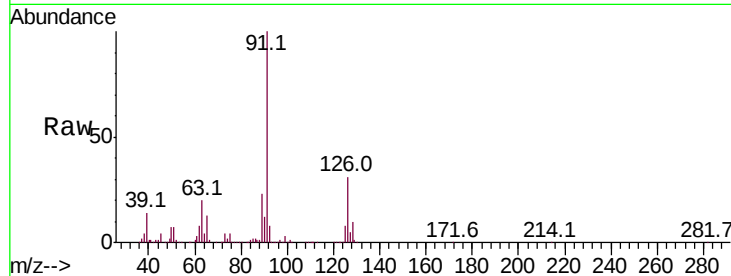
126 29.6 11.4 45.4

Manual Integrations

APPROVED

MMDadoda

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#72

4-Ethyltoluene

Concen: 11.537 ppbv

RT: 15.94 min Scan# 4045

Delta R.T. 0.01 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Tgt Ion:105 Resp: 4167423

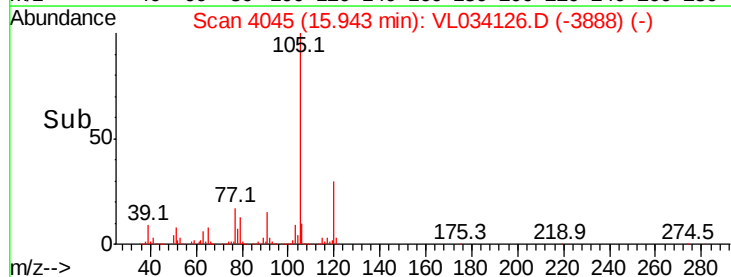
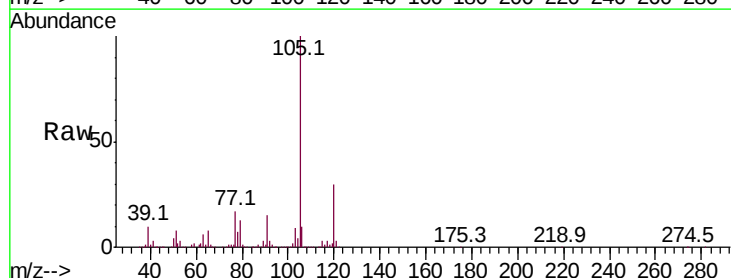
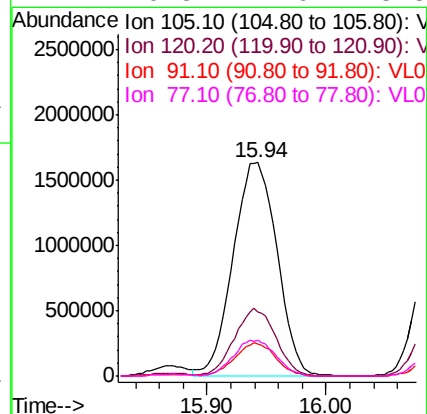
Ion Ratio Lower Upper

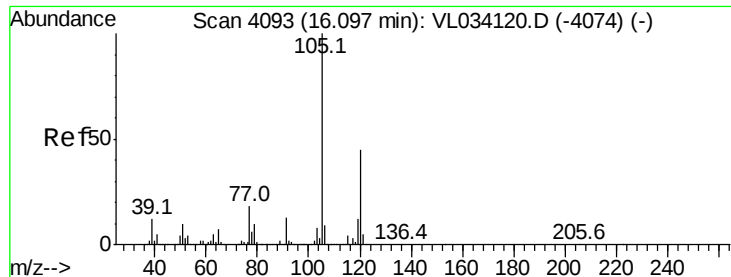
105 100

120 30.1 23.8 35.6

91 14.9 11.4 17.0

77 16.3 12.6 18.8





#73

1,3,5-Trimethylbenzene

Concen: 11.254 ppbv

RT: 16.10 min Scan# 4094

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 3951006

Ion Ratio Lower Upper

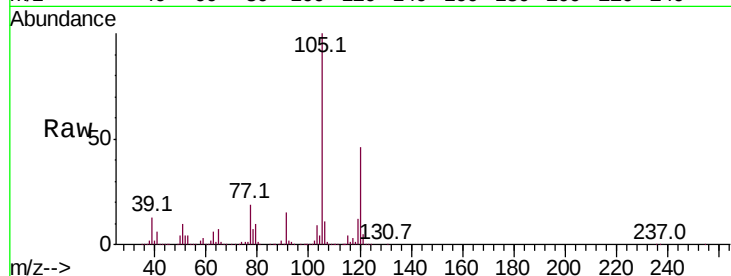
105 100

120 46.2 35.8 53.8

Manual Integrations
APPROVED

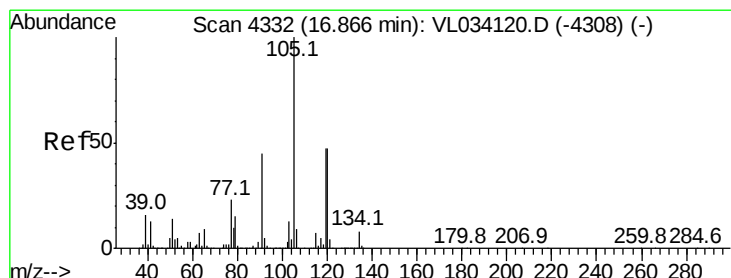
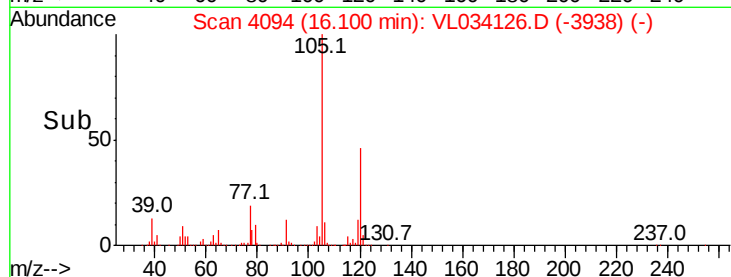
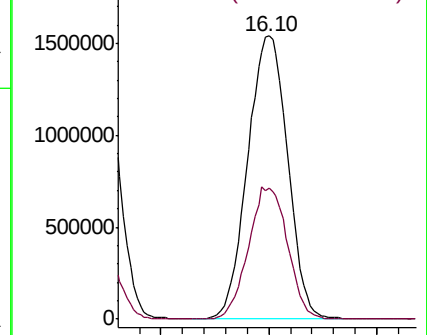
MMDadoda

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 10.585 ppbv

RT: 16.87 min Scan# 4333

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Tgt Ion:105 Resp: 3826397

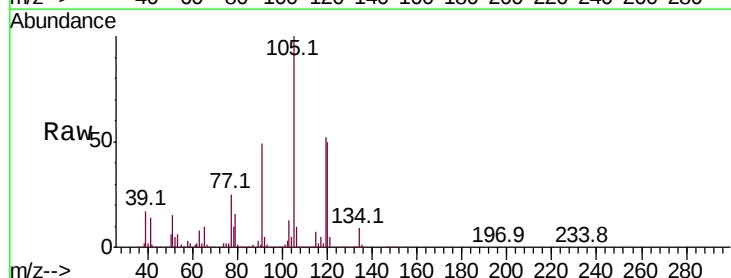
Ion Ratio Lower Upper

105 100

120 49.5 37.7 56.5

91 48.9 36.2 54.2

77 25.1 18.5 27.7

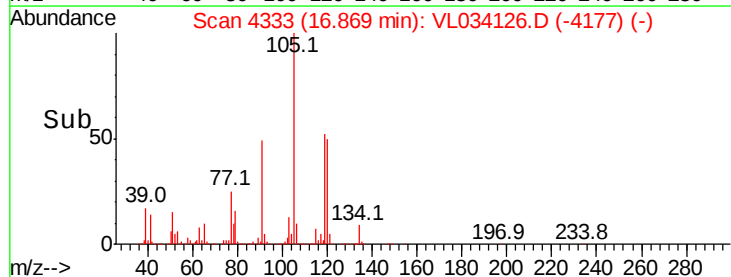
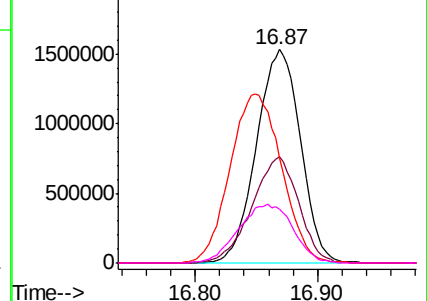


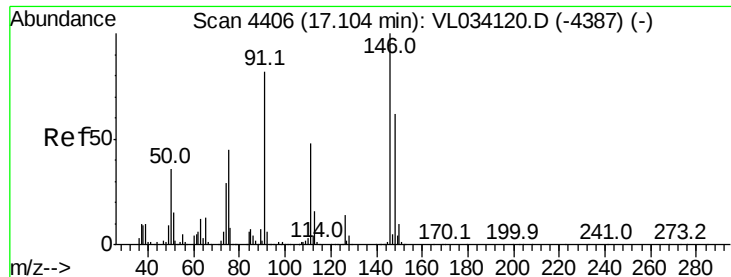
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 11.407 ppbv

RT: 17.10 min Scan# 4406

Delta R.T. -0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 2183501

Ion Ratio Lower Upper

146 100

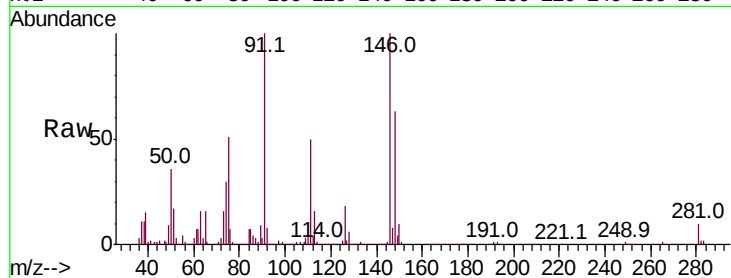
111 50.0 24.9 74.7

148 64.6 32.5 97.5

Manual Integrations
APPROVED

MMDadoda

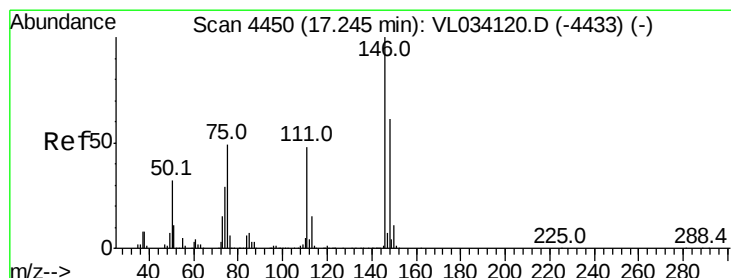
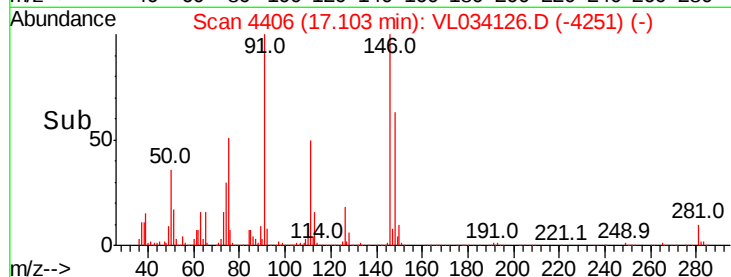
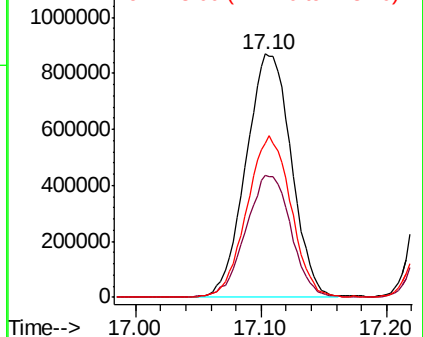
9/12/2019 5:15:48 AM



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: 11.311 ppbv

RT: 17.25 min Scan# 4451

Delta R.T. 0.00 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

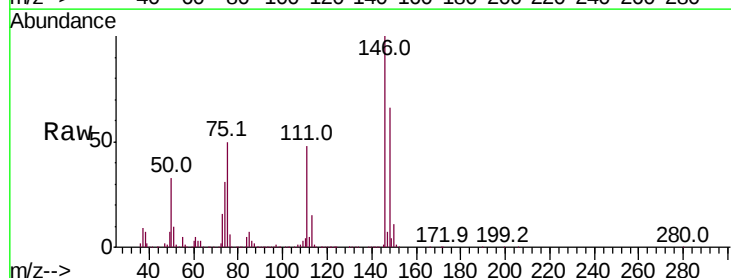
Tgt Ion:146 Resp: 2283155

Ion Ratio Lower Upper

146 100

111 48.9 24.3 72.8

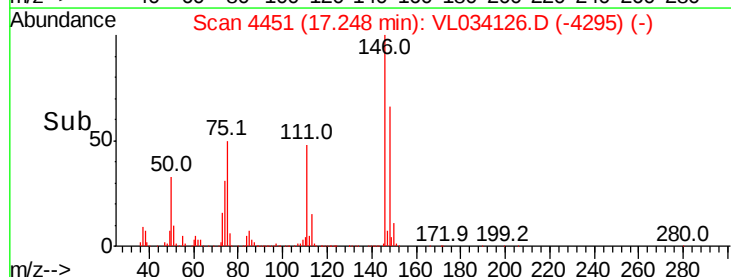
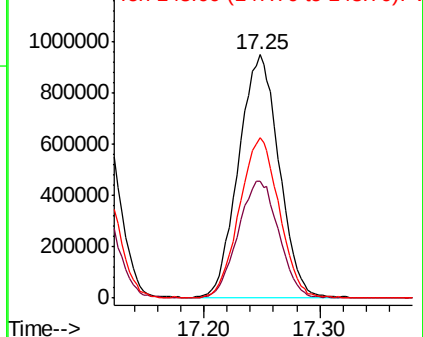
148 65.2 32.6 98.0

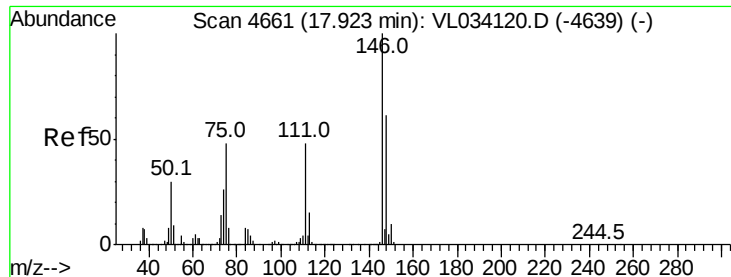


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 11.232 ppbv

RT: 17.93 min Scan# 4663

Delta R.T. 0.01 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 2198315

Ion Ratio Lower Upper

146 100

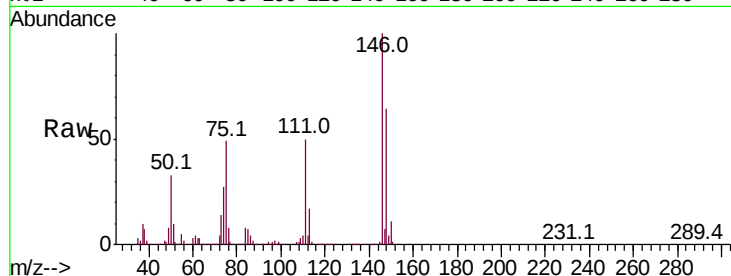
111 51.7 25.1 75.4

148 65.3 32.0 96.2

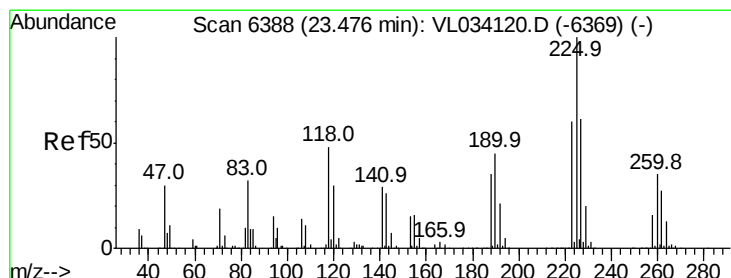
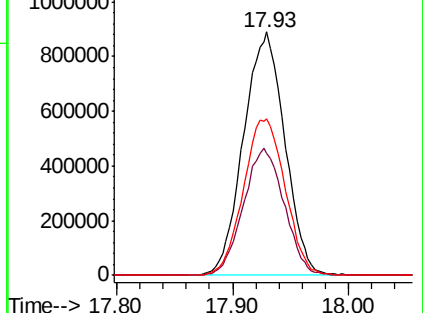
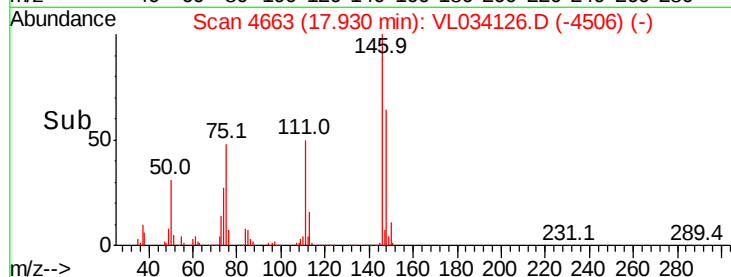
Manual Integrations
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Abundance Ion 146.00 (145.70 to 146.70): V
1200000 Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 11.145 ppbv

RT: 23.48 min Scan# 6390

Delta R.T. 0.01 min

Lab File: VL034126.D

Acq: 5 Sep 2019 6:26

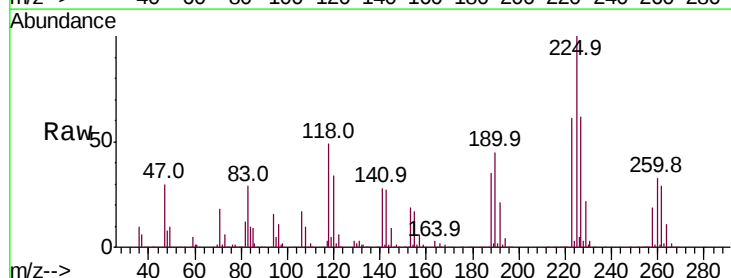
Tgt Ion:225 Resp: 1487057

Ion Ratio Lower Upper

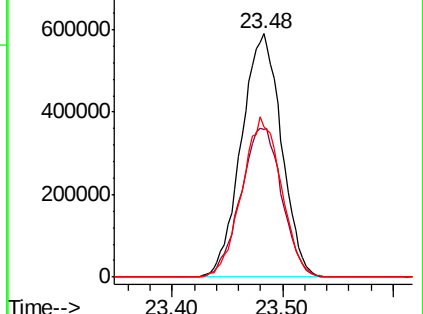
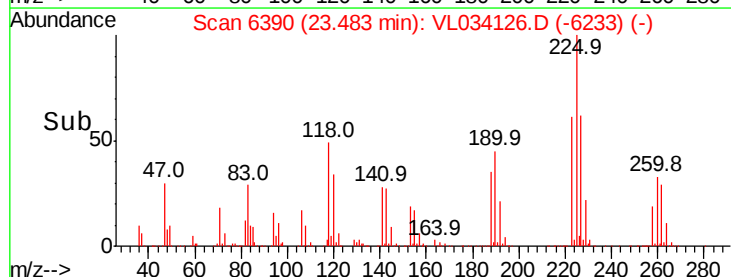
225 100

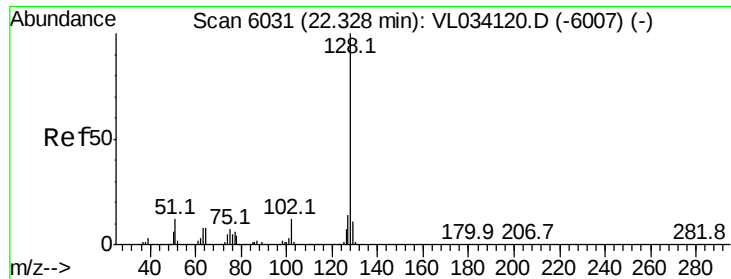
223 62.9 50.3 75.5

227 64.4 50.9 76.3



Abundance Ion 224.90 (224.60 to 225.60): V
800000 Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V





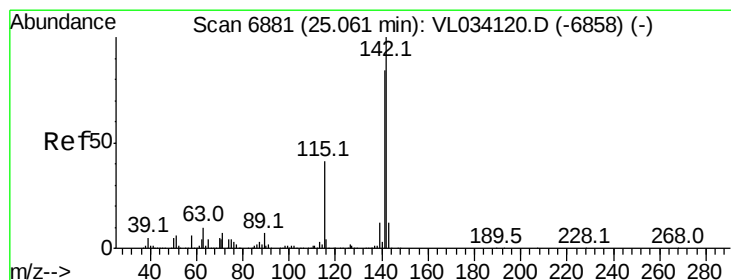
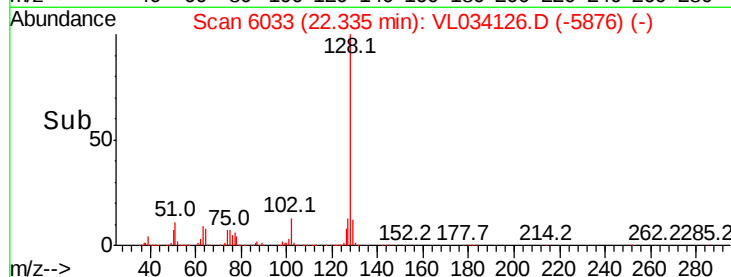
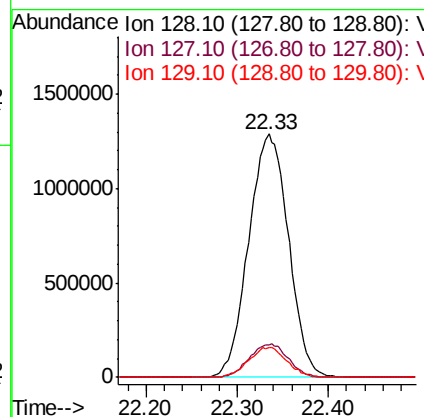
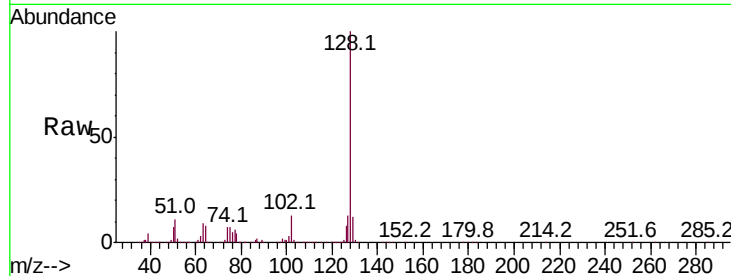
#79
Naphthalene
Concen: 11.952 ppbv
RT: 22.33 min Scan# 6033
Delta R.T. 0.01 min
Lab File: VL034126.D
Acq: 5 Sep 2019 6:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.9	16.3
129	12.2	8.5	12.7

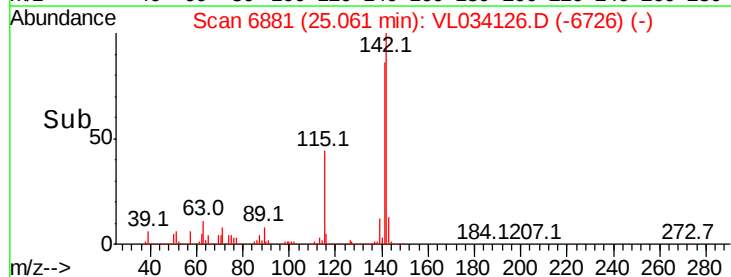
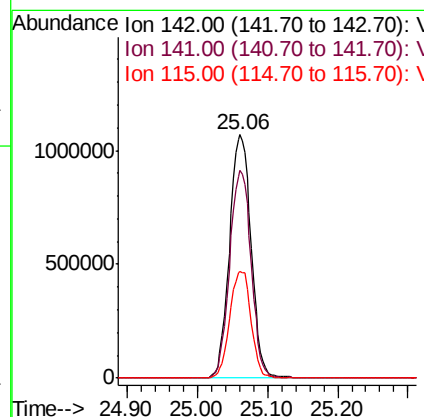
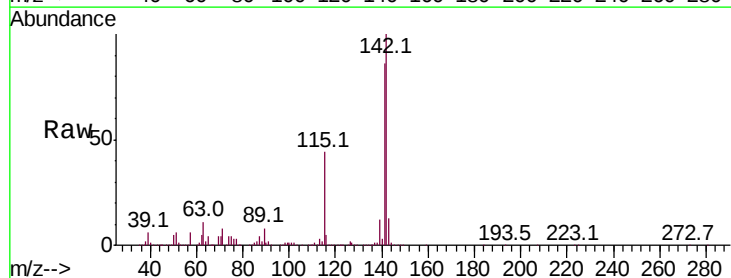
Manual Integrations
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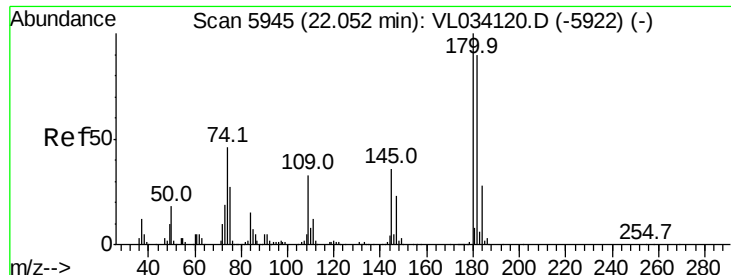
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#80
Naphthalene, 2-methyl-
Concen: 20.214 ppbv
RT: 25.06 min Scan# 6881
Delta R.T. -0.00 min
Lab File: VL034126.D
Acq: 5 Sep 2019 6:26

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.8	67.6	101.4
115	43.5	34.6	52.0





#81
 1,2,4-Trichlorobenzene
 Concen: 11.708 ppbv
 RT: 22.06 min Scan# 5949
 Delta R.T. 0.01 min
 Lab File: VL034126.D
 Acq: 5 Sep 2019 6:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.5	77.0	115.4
184	31.2	25.5	38.3

Manual Integrations
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