

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050619\
 Data File : VL033675.D
 Acq On : 7 May 2019 1:47
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 12:07:16 PM

Quant Time: May 07 05:40:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 07 2019
 QLast Update : Mon May 06 15:19:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	837806	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2041046	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2189389m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1820085	10.14	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.07	85	1512425	7.697	ppbv 98
3) Chlorodifluoromethane	3.01	51	992829	8.206	ppbv 100
4) Chloromethane	3.17	50	526617	8.372	ppbv 100
5) Vinyl Chloride	3.29	62	532485	8.707	ppbv 100
6) Bromomethane	3.51	94	342402	8.813	ppbv 99
7) Chloroethane	3.60	64	200500	9.031	ppbv 99
8) Dichlorotetrafluoroethane	3.22	85	1394078	8.619	ppbv 98
9) Propene	3.03	41	405326	8.787	ppbv 100
10) Heptane	8.25	43	1175669	10.328	ppbv 98
11) Trichlorofluoromethane	4.00	101	1634992	8.911	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1127093	9.137	ppbv 99
13) Ethanol	3.65	45	94749	6.844	ppbv 100
14) Bromoethene	3.79	108	428880	8.821	ppbv 99
15) Acetone	3.90	43	1014645	8.141	ppbv 100
16) 1,3-Butadiene	3.36	39	479003	8.961	ppbv 98
17) tert-Butyl alcohol	4.35	59	843296	8.908	ppbv 100
18) 1,1-Dichloroethene	4.35	96	483455	9.078	ppbv 97
19) Isopropyl Alcohol	4.02	45	667175	8.713	ppbv 99
20) Methylene Chloride	4.41	84	421917	8.915	ppbv 96
21) Allyl Chloride	4.47	41	725932	9.622	ppbv 99
22) trans-1,2-Dichloroethene	4.96	96	511783	9.573	ppbv 96
23) Vinyl Acetate	5.16	43	1592934	9.836	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1120153	9.143	ppbv 99
25) Ethyl Acetate	5.77	43	1974641	9.738	ppbv 100
26) Hexane	5.78	57	869369	9.974	ppbv 99
27) Carbon Disulfide	4.62	76	1254621	10.523	ppbv 100
28) Methyl tert-Butyl Ether	5.11	73	1348363	9.184	ppbv 99
29) Chloroform	5.85	83	1493865	9.532	ppbv 98
30) Cyclohexane	7.25	84	744743	10.174	ppbv 97
31) cis-1,2-Dichloroethene	5.64	61	884250	10.197	ppbv 96
32) 1,1,1-Trichloroethane	6.62	97	1484798	9.175	ppbv 99
34) 2-Butanone	5.33	43	1277151	9.772	ppbv 99
35) Carbon Tetrachloride	7.13	117	1726658	10.293	ppbv 97
36) Benzene	7.00	78	1806905	9.873	ppbv 99
37) 1,2-Dichloroethane	6.41	62	1158709	9.074	ppbv 99
38) Trichloroethene	7.96	130	805015	11.991	ppbv 98
39) 1,2-Dichloropropane	7.74	63	666350	9.769	ppbv 96
40) 1,4-Dioxane	7.96	88	292300	10.722	ppbv 92
41) Tetrahydrofuran	6.15	42	702784	10.405	ppbv 99
42) Bromodichloromethane	7.92	83	1746066	10.590	ppbv 96
43) Methyl Methacrylate	8.14	69	741945	10.777	ppbv 99

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Manual Integrations
 APPROVED

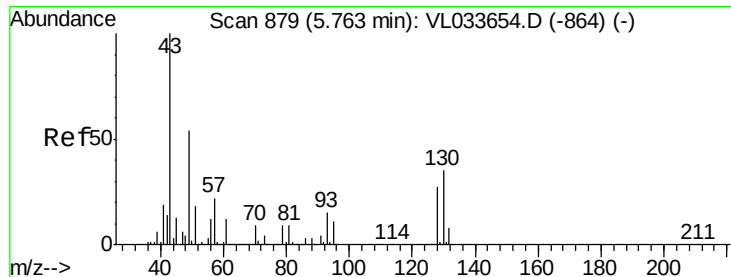
MMDadoda
 5/8/2019 12:07:16 PM

Quant Time: May 07 05:40:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 0
 QLast Update : Mon May 06 15:19:01 2019
 Response via : Initial Calibration

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

44) 2,2,4-Trimethylpentane	7.99	57	3457738	11.050	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1029952	12.190	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	1149503	10.901	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	788241	10.063	ppbv	98
48) Dibromochloromethane	10.45	129	1463260	11.019	ppbv	100
49) Bromoform	13.20	173	1302793	11.295	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2059053	10.404	ppbv	99
51) 2-Hexanone	10.27	43	1701246	11.096	ppbv #	99
52) Tetrachloroethene	11.37	164	708955	10.934	ppbv	98
53) Toluene	9.94	91	2210020	11.176	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1260694	10.684	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	1005051	9.952	ppbv	100
57) Chlorobenzene	12.30	112	1761915	9.801	ppbv	99
58) Ethyl Benzene	12.86	91	3092527	10.831	ppbv	99
59) m/p-Xylene	13.15	91	5218327m	20.751	ppbv	
60) o-Xylene	13.85	91	2657107	10.440	ppbv	100
61) Styrene	13.68	104	1976221	11.661	ppbv	99
62) Isopropylbenzene	14.82	105	3562369	10.251	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	1811558	9.780	ppbv	100
64) n-propylbenzene	15.72	120	910643	10.141	ppbv	98
65) tert-Butylbenzene	16.91	119	3196349	10.027	ppbv	100
66) Benzyl Chloride	17.16	91	1711006	11.799	ppbv	100
67) sec-Butylbenzene	17.46	105	4485651	10.086	ppbv	100
69) p-Isopropyltoluene	17.81	119	3768119	10.283	ppbv	100
70) n-Butylbenzene	18.71	91	3950890	10.167	ppbv	100
71) 2-Chlorotoluene	15.61	91	2698129	10.509	ppbv	99
72) 4-Ethyltoluene	16.00	105	3124351	10.444	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	2954628	10.215	ppbv	97
74) 1,2,4-Trimethylbenzene	16.93	105	3105651	9.659	ppbv	100
75) 1,3-Dichlorobenzene	17.16	146	1812558	9.334	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1804789	9.793	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1741847	9.682	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	1569578	11.008	ppbv	100
79) Naphthalene	22.41	128	3507242	11.948	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1634949	14.733	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	1811749	10.623	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033675.D

Acq: 7 May 2019 1:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 837806

Ion Ratio Lower Upper

49 100

128 50.3 24.8 74.3

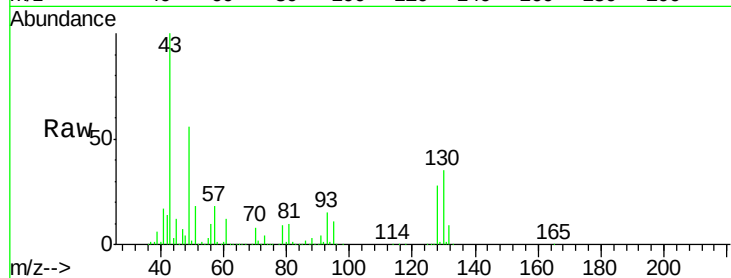
130 63.8 32.1 96.5

Manual Integrations

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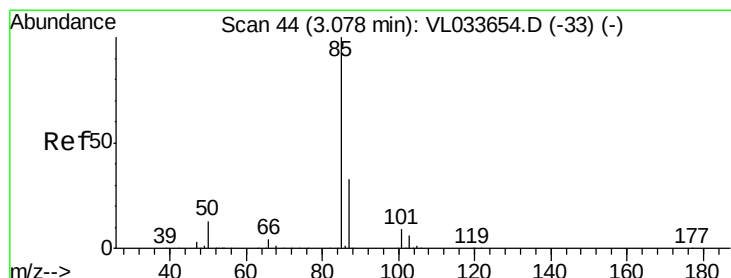
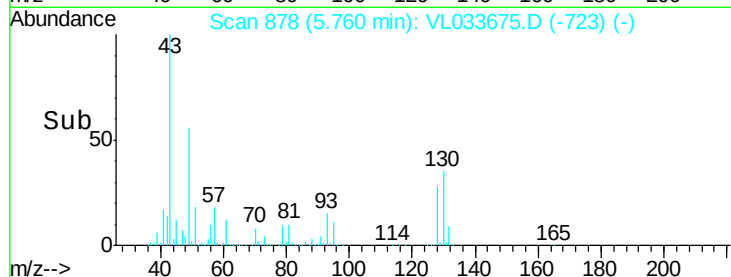
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.76

Time-->



#2

Dichlorodifluoromethane

Concen: 7.697 ppbv

RT: 3.07 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033675.D

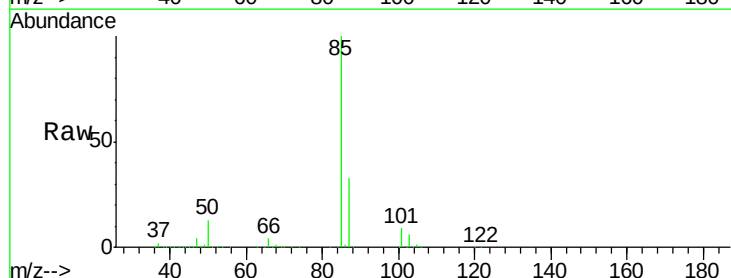
Acq: 7 May 2019 1:47

Tgt Ion: 85 Resp: 1512425

Ion Ratio Lower Upper

85 100

87 33.3 26.0 39.0

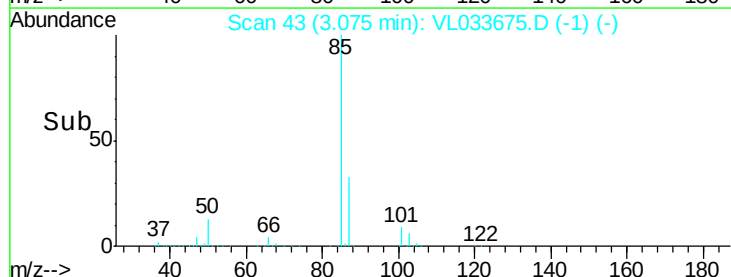


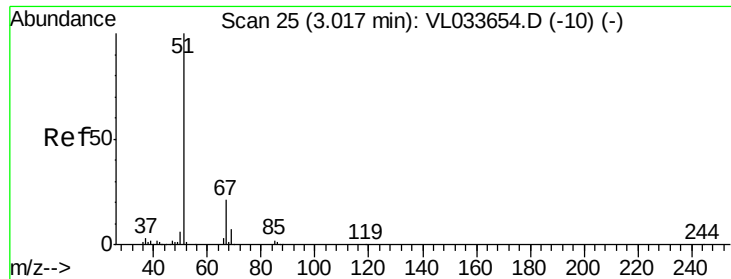
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.07

Time-->





#3

Chlorodifluoromethane

Concen: 8.206 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.01 min

Lab File: VL033675.D

Acq: 7 May 2019 1:47

Tot Ion: 51 Resp: 992829

Ion Ratio Lower Upper

51 100

67 19.5 15.7 23.5

Instrument :

MSVOA_L

ClientSampleId :

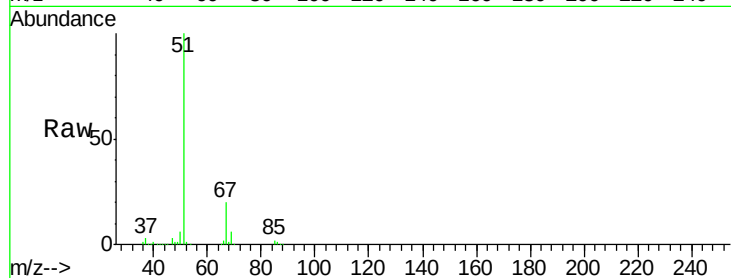
VSTDCCC010EC

Manual Integrations

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.01

800000

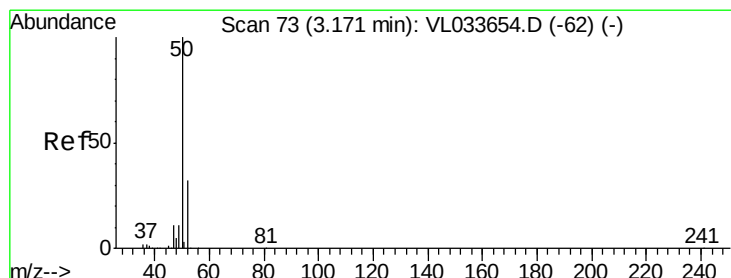
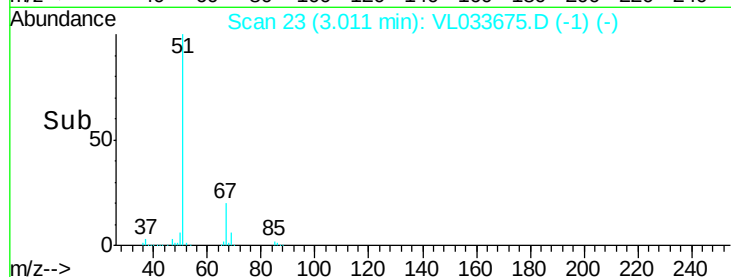
600000

400000

200000

0

Time--> 2.90 3.00 3.10



#4

Chloromethane

Concen: 8.372 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033675.D

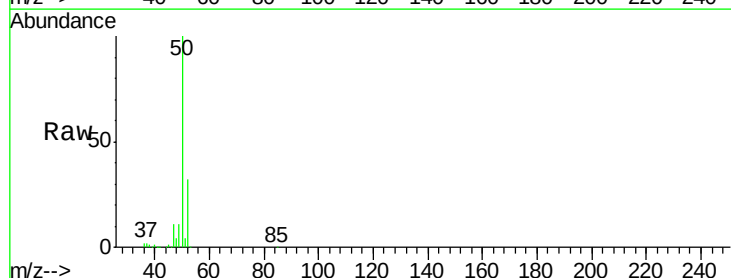
Acq: 7 May 2019 1:47

Tgt Ion: 50 Resp: 526617

Ion Ratio Lower Upper

50 100

52 32.2 25.8 38.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.17

400000

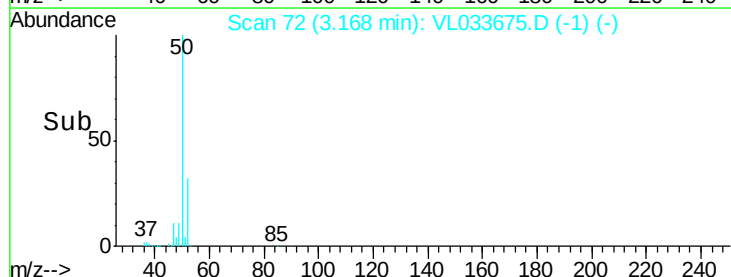
300000

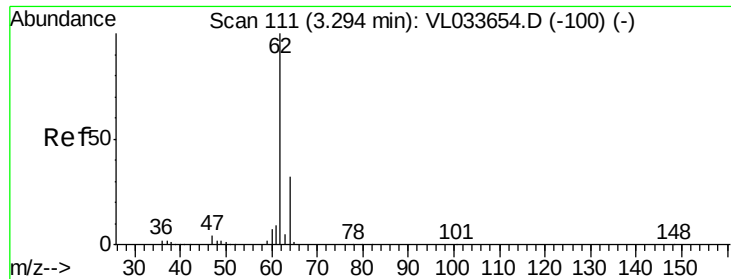
200000

100000

0

Time--> 3.15 3.20





#5

Vinyl Chloride

Concen: 8.707 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033675.D

Acq: 7 May 2019 1:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 532485

Ion Ratio Lower Upper

62 100

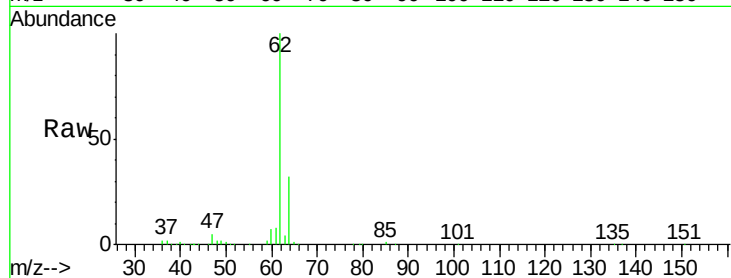
64 31.9 25.6 38.4

Manual Integrations

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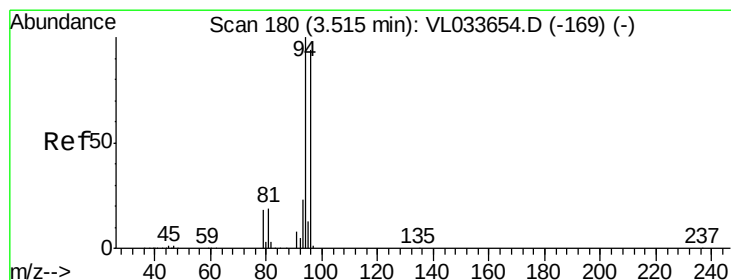
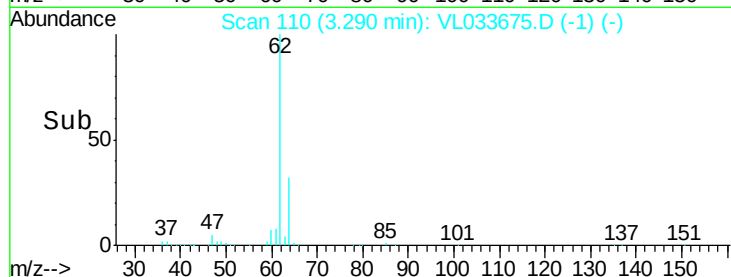
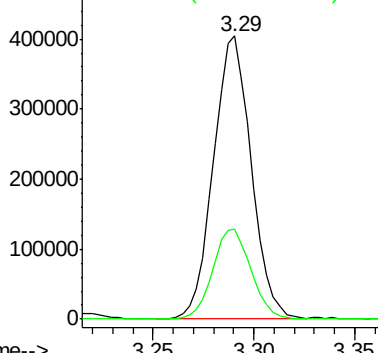
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 8.813 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033675.D

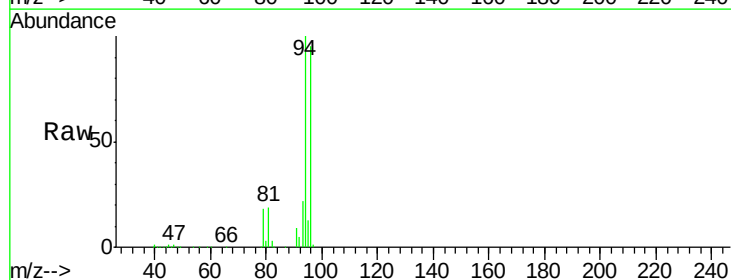
Acq: 7 May 2019 1:47

Tgt Ion: 94 Resp: 342402

Ion Ratio Lower Upper

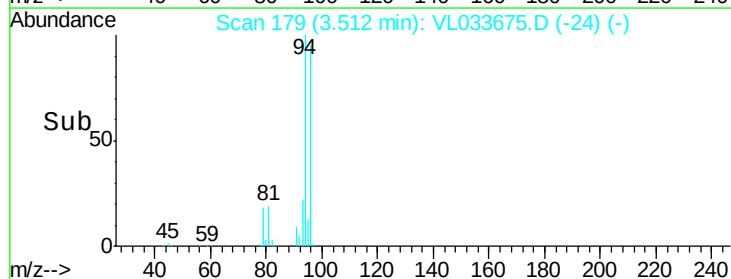
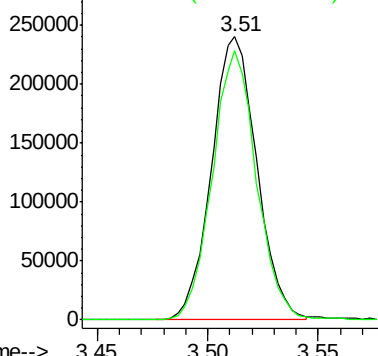
94 100

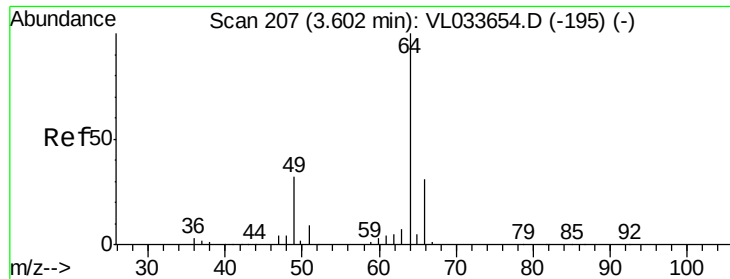
96 95.0 75.2 112.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.031 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033675.D

Acq: 7 May 2019 1:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 200500

Ion Ratio Lower Upper

64 100

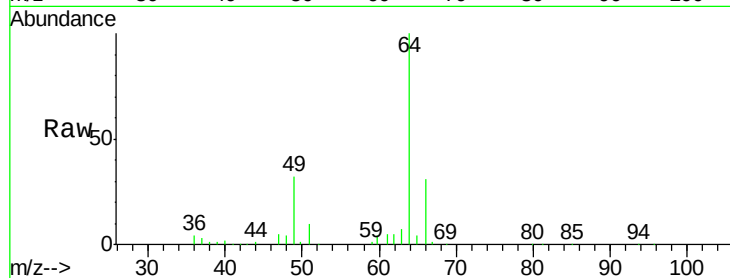
66 31.1 25.1 37.7

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

150000

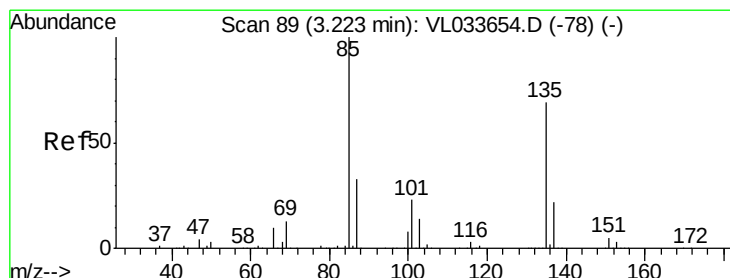
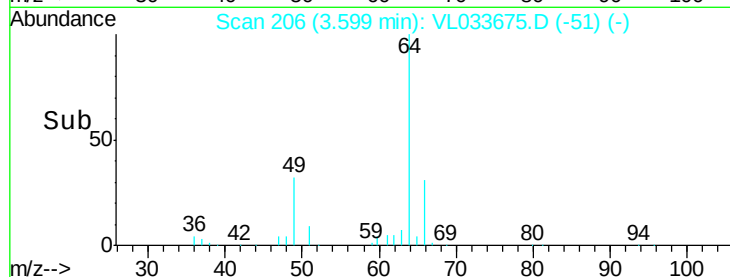
100000

50000

0

3.55 3.60 3.65

Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.619 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.01 min

Lab File: VL033675.D

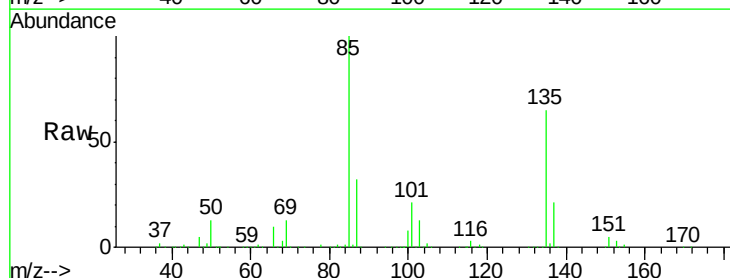
Acq: 7 May 2019 1:47

Tgt Ion: 85 Resp: 1394078

Ion Ratio Lower Upper

85 100

135 66.3 54.3 81.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1200000

1000000

800000

600000

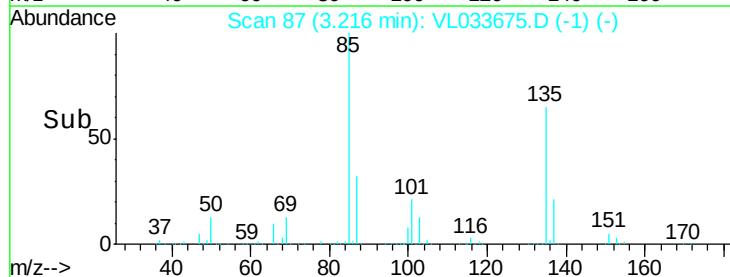
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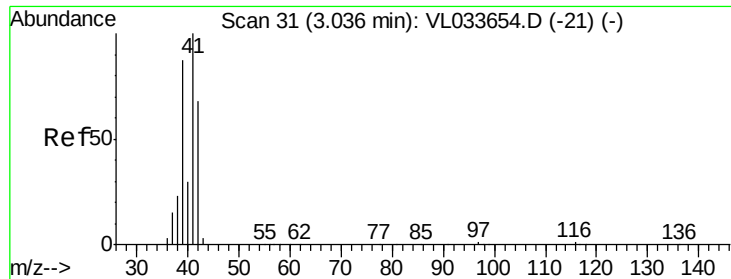
200000

0

3.20 3.25

Time-->





#9

Propene

Concen: 8.787 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.00 min

Lab File: VL033675.D

Acq: 7 May 2019 1:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 405326

Ion Ratio Lower Upper

41 100

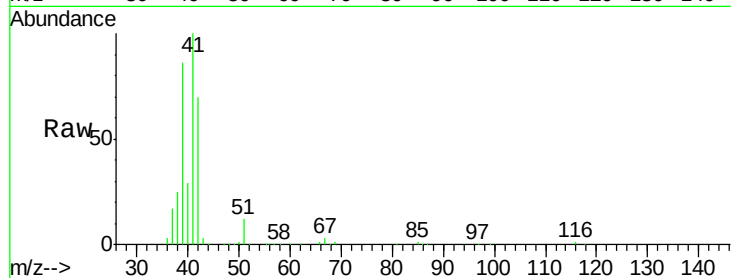
42 69.4 55.6 83.4

Manual Integrations

APPROVED

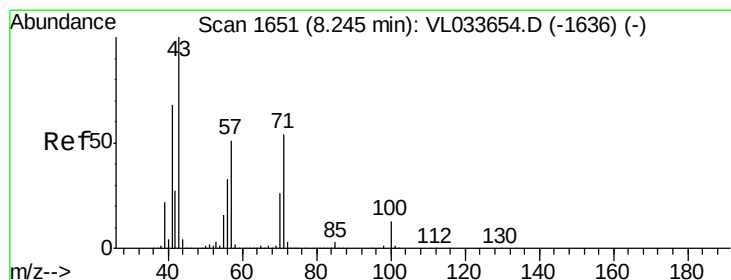
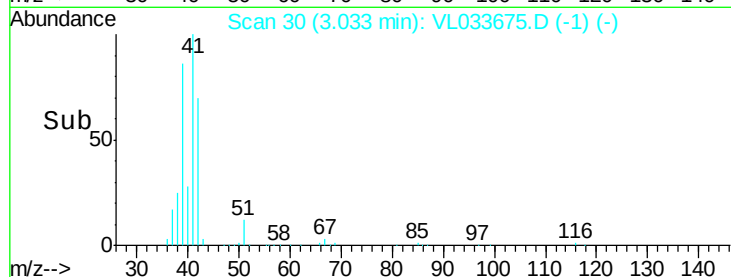
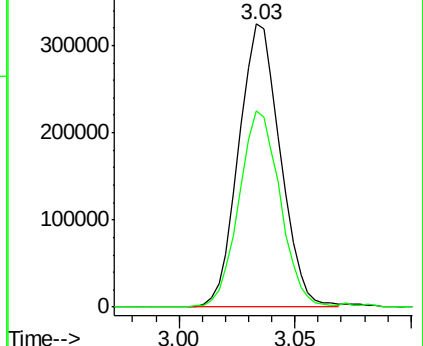
MMDadoda

5/8/2019 12:07:16 PM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 10.328 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. 0.00 min

Lab File: VL033675.D

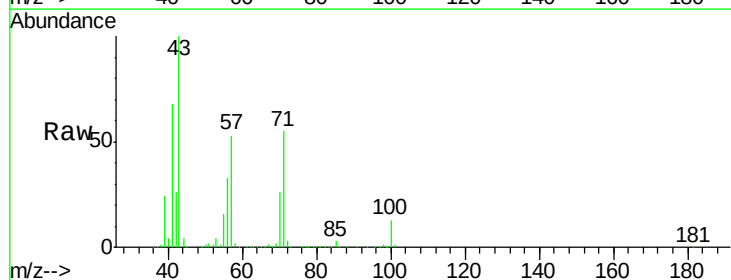
Acq: 7 May 2019 1:47

Tgt Ion: 43 Resp: 1175669

Ion Ratio Lower Upper

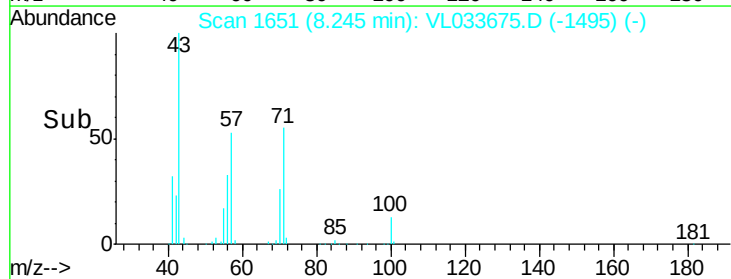
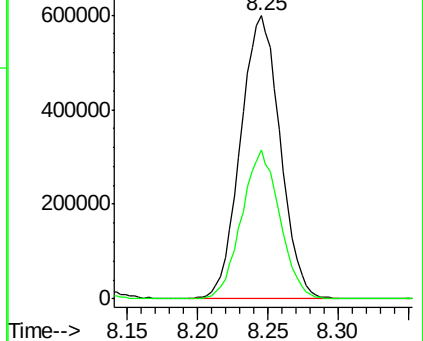
43 100

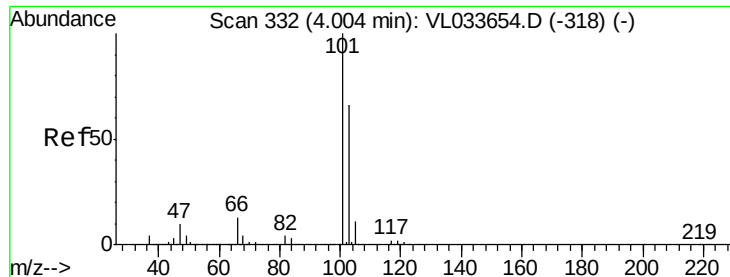
57 50.9 41.8 62.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





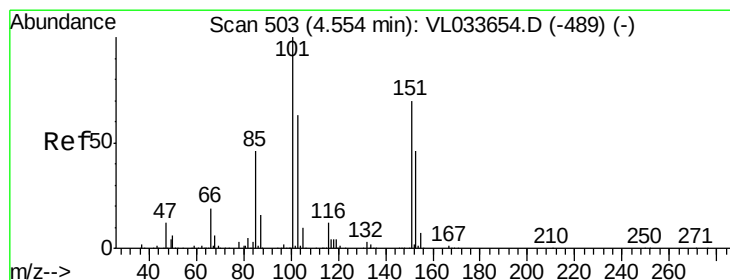
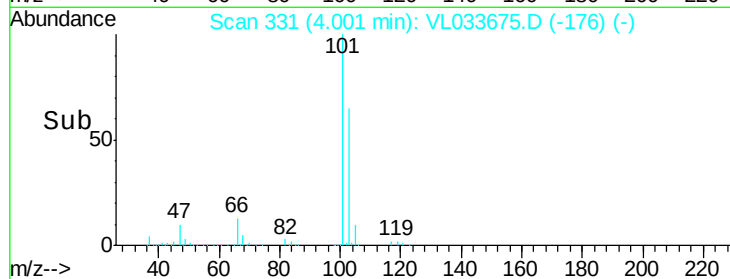
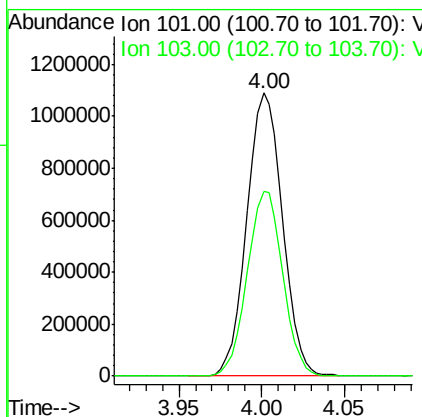
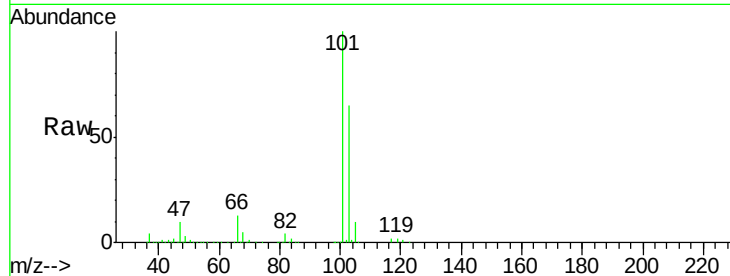
#11
 Trichlorofluoromethane
 Concen: 8.911 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. -0.00 min
 Lab File: VL033675.D
 Acq: 7 May 2019 1:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1634992
 Ion Ratio Lower Upper
 101 100
 103 65.4 52.7 79.1

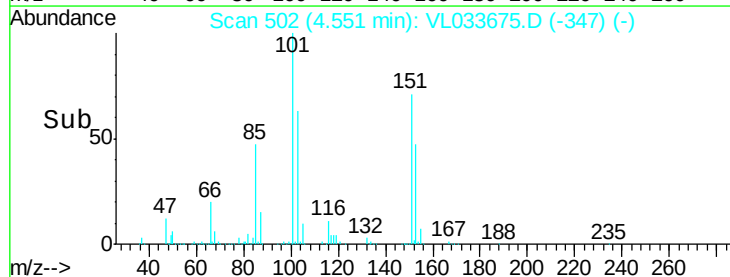
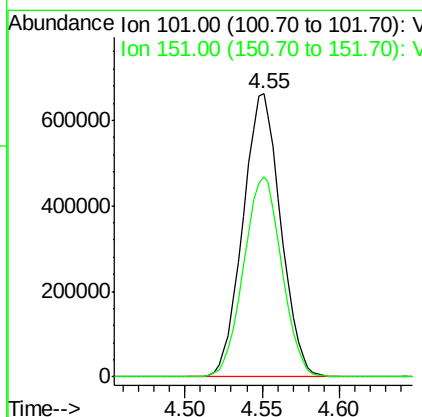
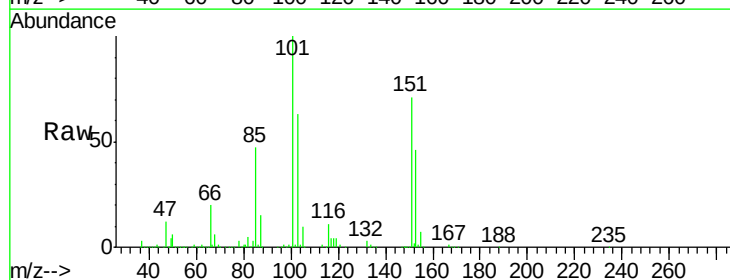
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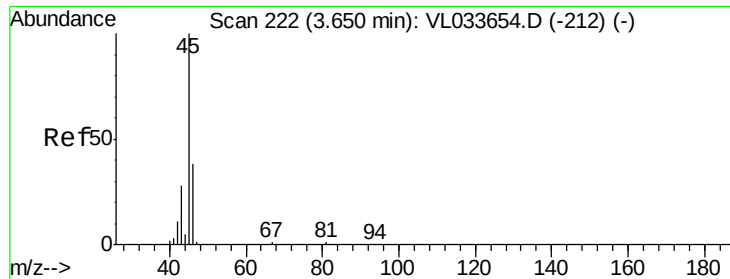
MMDadoda
 5/8/2019 12:07:16 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.137 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VL033675.D
 Acq: 7 May 2019 1:47

Tgt Ion:101 Resp: 1127093
 Ion Ratio Lower Upper
 101 100
 151 71.5 58.0 87.0





#13

Ethanol

Concen: 6.844 ppbv

RT: 3.65 min Scan# 222

Delta R.T. 0.00 min

Lab File: VL033675.D

Acq: 7 May 2019 1:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 94749

Ion Ratio Lower Upper

45 100

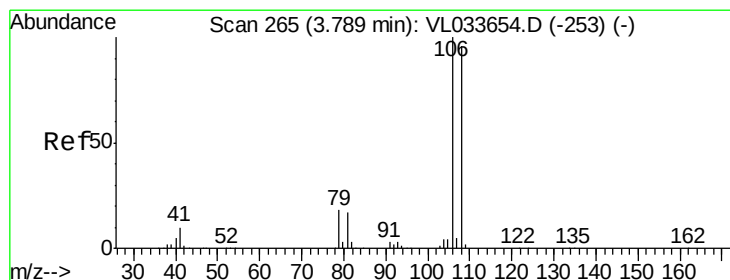
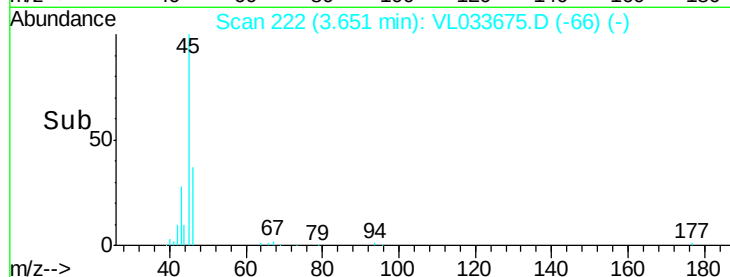
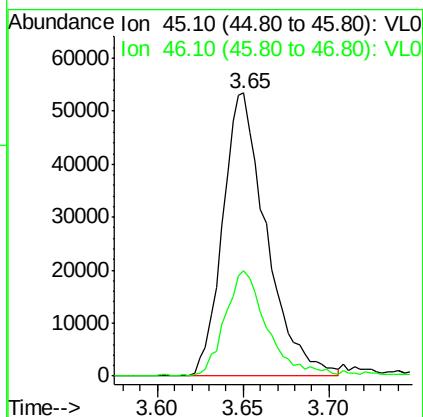
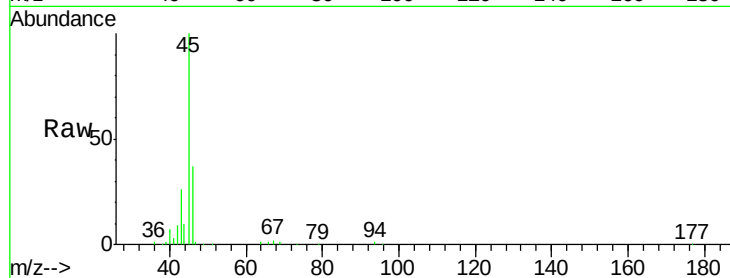
46 37.3 14.9 59.7

Manual Integrations

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#14

Bromoethene

Concen: 8.821 ppbv

RT: 3.79 min Scan# 264

Delta R.T. -0.00 min

Lab File: VL033675.D

Acq: 7 May 2019 1:47

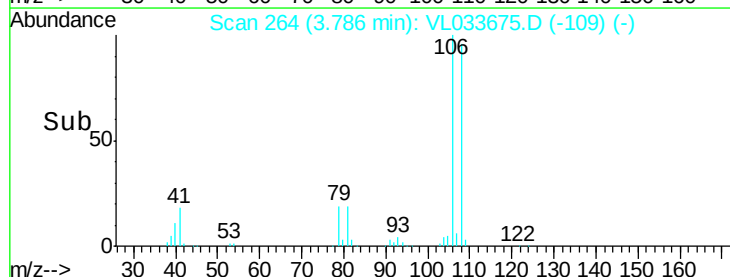
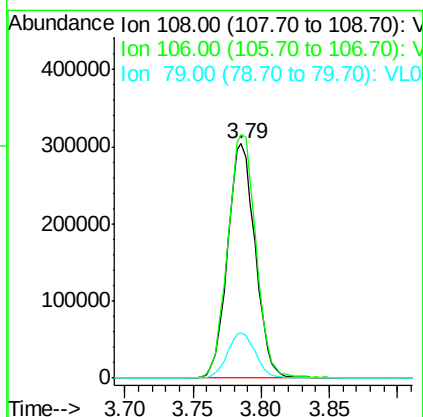
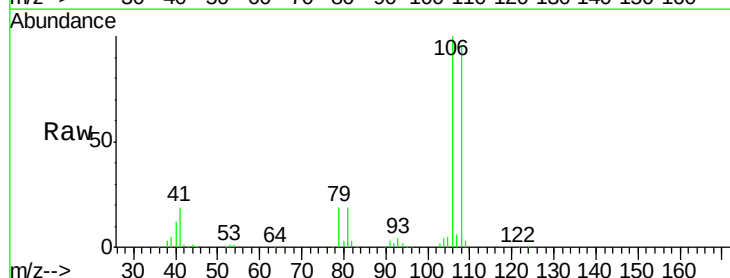
Tgt Ion: 108 Resp: 428880

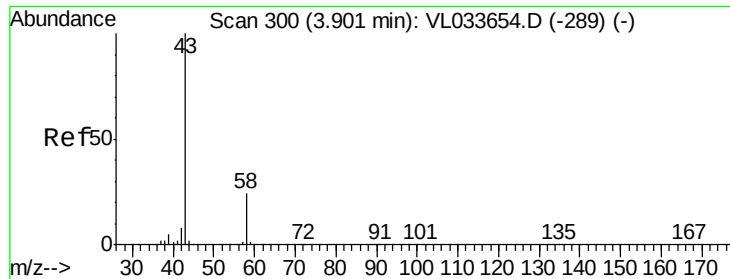
Ion Ratio Lower Upper

108 100

106 106.4 85.7 128.5

79 19.6 15.2 22.8





#15

Acetone

Concen: 8.141 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033675.D

Acq: 7 May 2019 1:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1014645

Ion Ratio Lower Upper

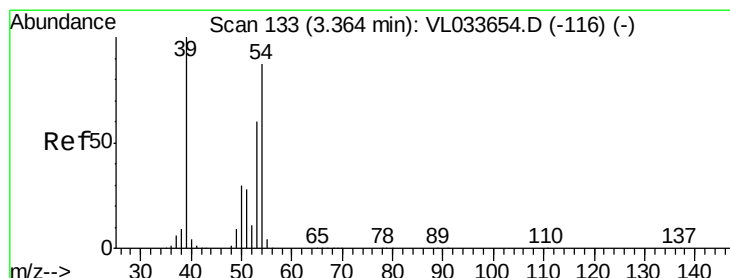
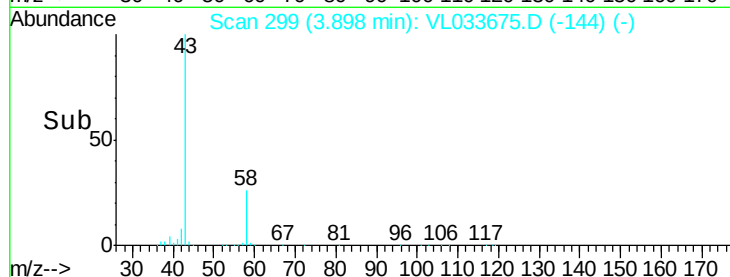
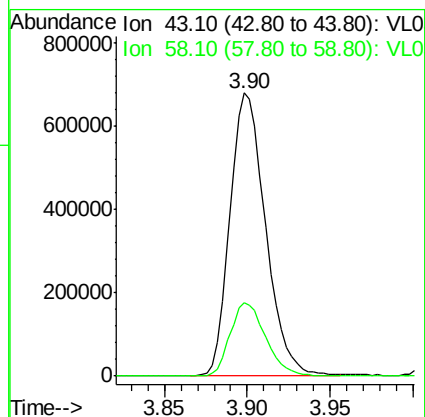
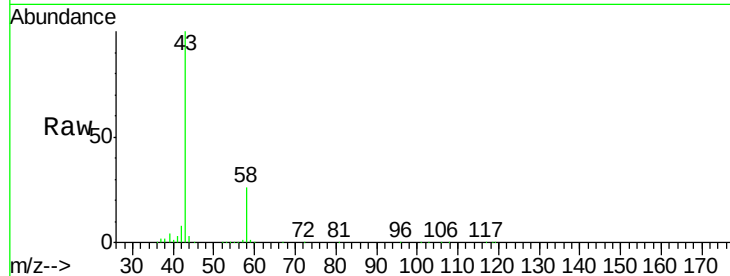
43 100

58 26.0 20.9 31.3

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#16

1,3-Butadiene

Concen: 8.961 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033675.D

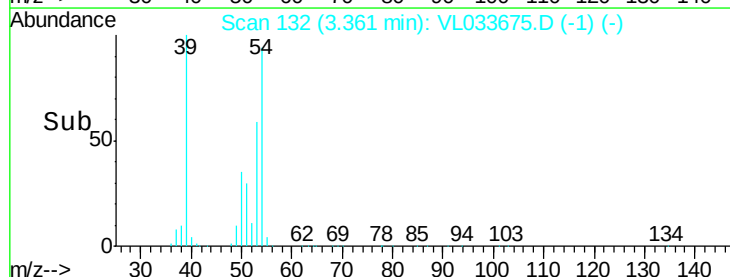
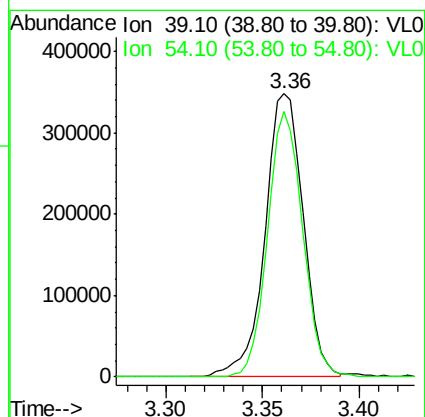
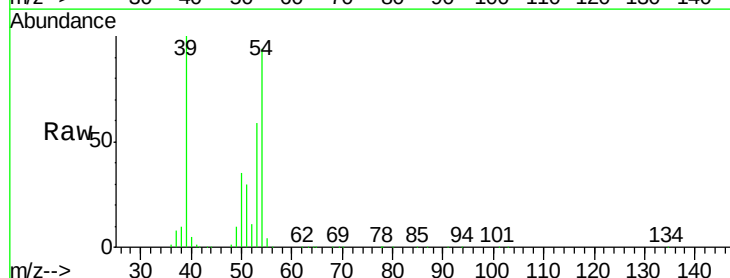
Acq: 7 May 2019 1:47

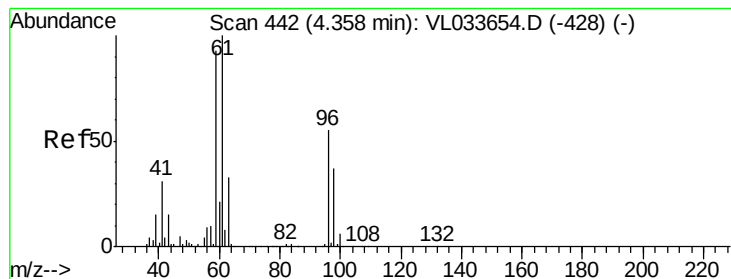
Tgt Ion: 39 Resp: 479003

Ion Ratio Lower Upper

39 100

54 85.9 67.0 100.4





#17

tert-Butyl alcohol

Concen: 8.908 ppbv

RT: 4.35 min Scan# 441

Delta R.T. -0.00 min

Lab File: VL033675.D

Acq: 7 May 2019 1:47

Tot Ion: 59 Resp: 843296

Ion Ratio Lower Upper

59 100

57 10.6 8.4 12.6

Instrument :

MSVOA_L

ClientSampleId :

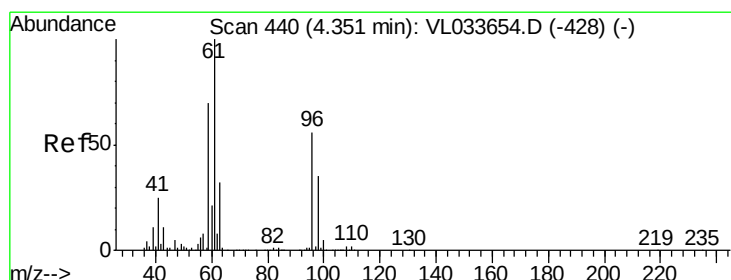
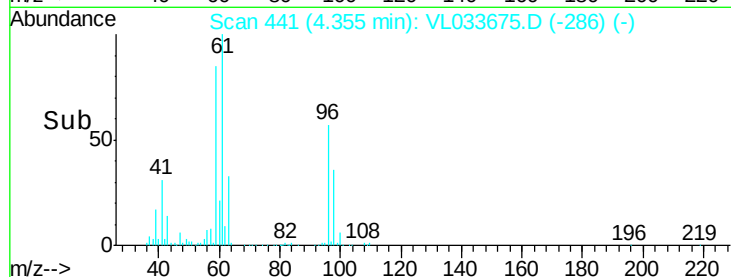
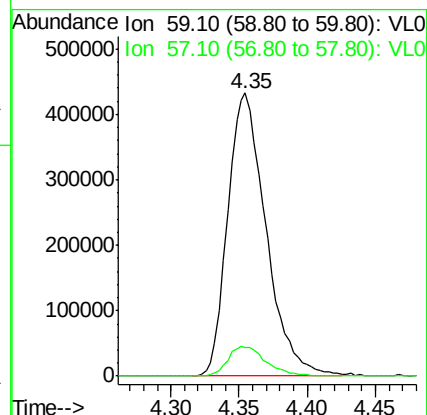
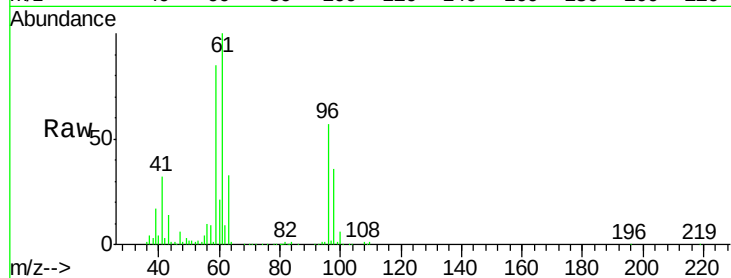
VSTDCCC010EC

Manual Integrations

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#18

1,1-Dichloroethene

Concen: 9.078 ppbv

RT: 4.35 min Scan# 440

Delta R.T. 0.00 min

Lab File: VL033675.D

Acq: 7 May 2019 1:47

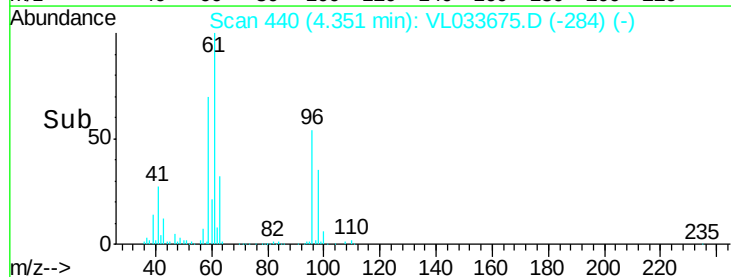
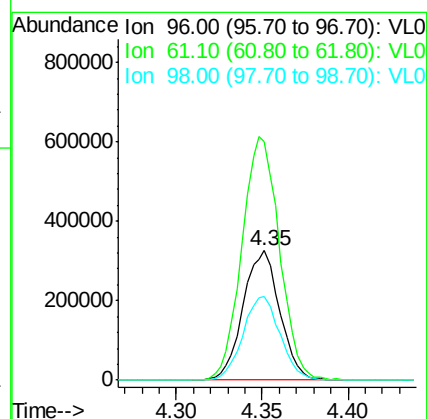
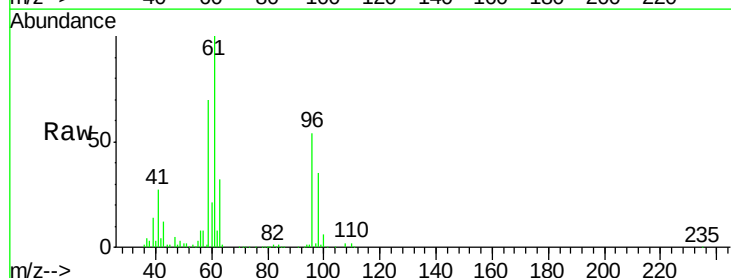
Tgt Ion: 96 Resp: 483455

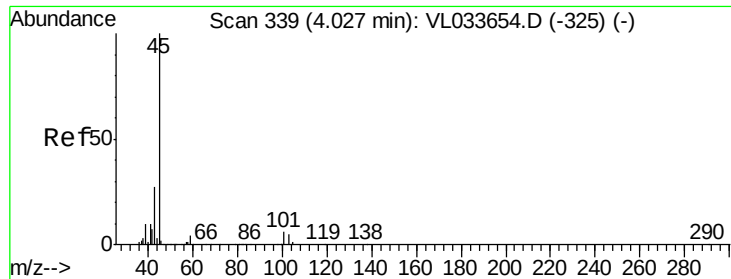
Ion Ratio Lower Upper

96 100

61 184.2 143.4 215.0

98 64.8 50.4 75.6





#19

Isopropyl Alcohol

Concen: 8.713 ppbv

RT: 4.02 min Scan# 337

Delta R.T. -0.01 min

Lab File: VL033675.D

Acq: 7 May 2019 1:47

Tot Ion: 45 Resp: 667175

Ion Ratio Lower Upper

45 100

58 2.9 2.0 3.0

Instrument :

MSVOA_L

ClientSampleId :

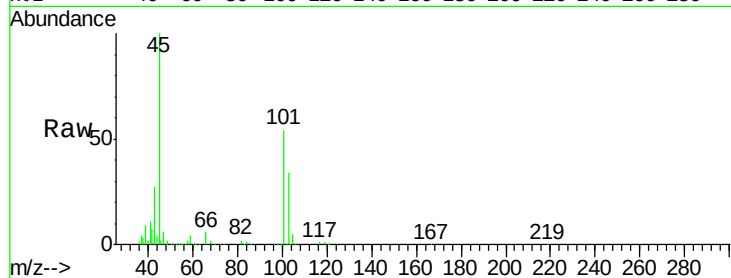
VSTDCCC010EC

Manual Integrations

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.02

400000

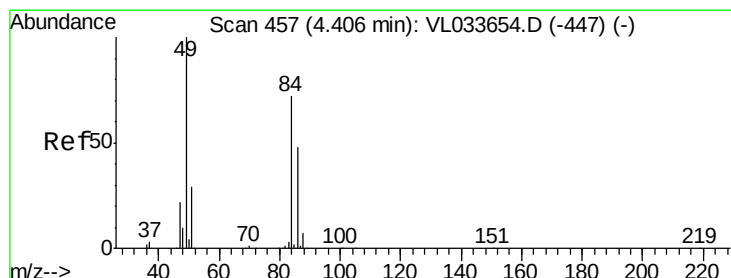
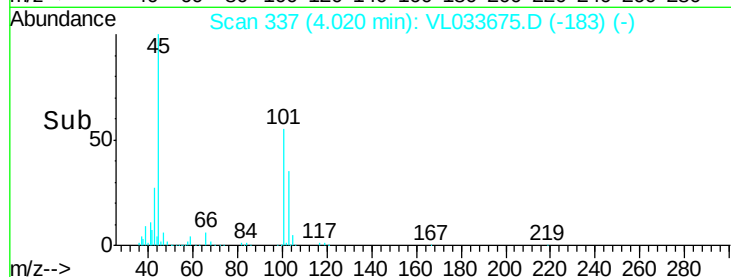
300000

200000

100000

0

Time--> 3.95 4.00 4.05 4.10



#20

Methylene Chloride

Concen: 8.915 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL033675.D

Acq: 7 May 2019 1:47

Tgt Ion: 84 Resp: 421917

Ion Ratio Lower Upper

84 100

49 144.7 111.8 167.6

51 42.3 32.3 48.5

86 63.3 53.9 80.9

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

600000

500000

400000

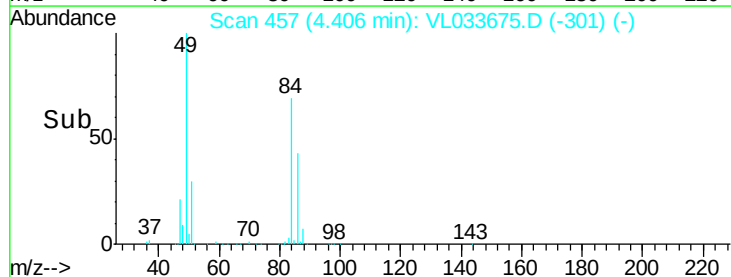
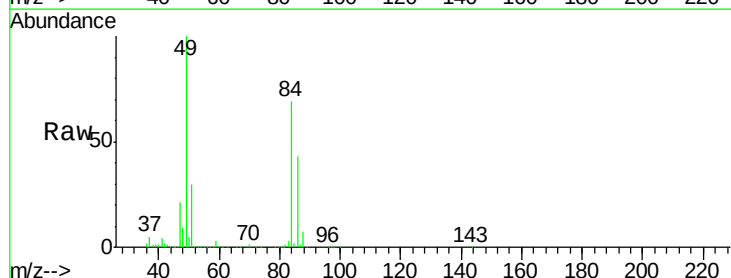
300000

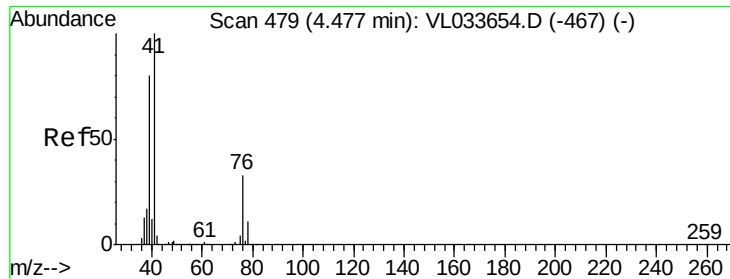
200000

100000

0

Time--> 4.35 4.40 4.45 4.50





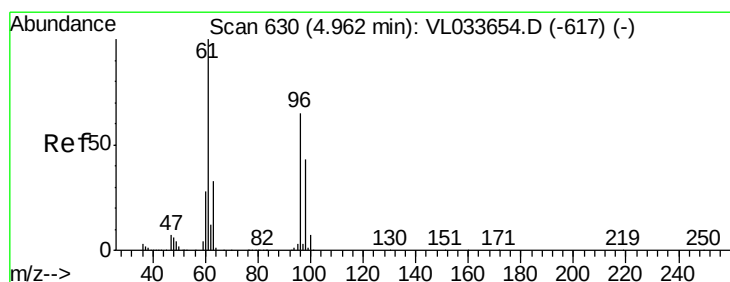
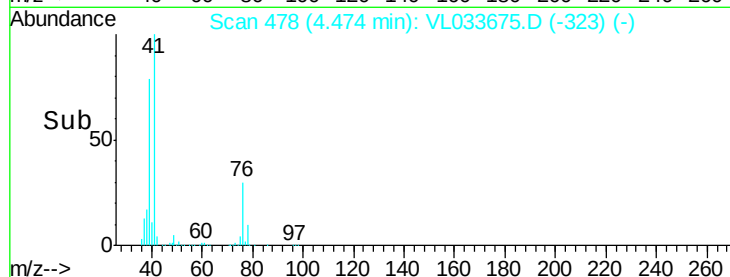
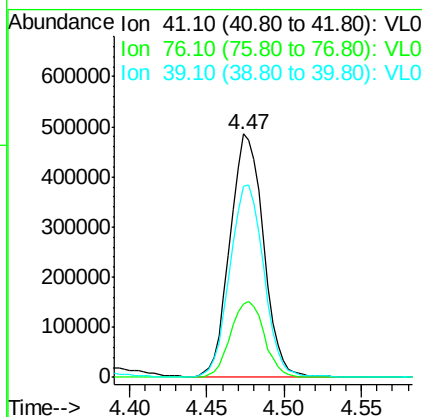
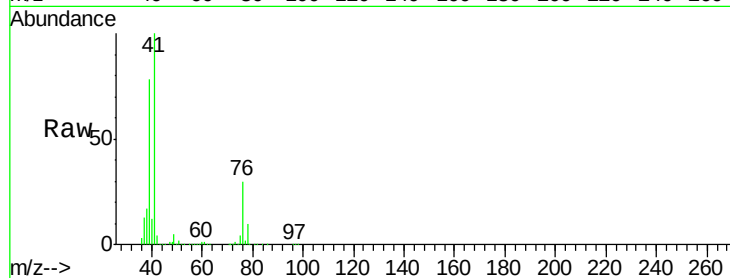
#21
Allvl Chloride
Concen: 9.622 ppbv
RT: 4.47 min Scan# 478
Delta R.T. -0.00 min
Lab File: VL033675.D
Acq: 7 May 2019 1:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	31.6	26.0	39.0
39	80.8	64.4	96.6

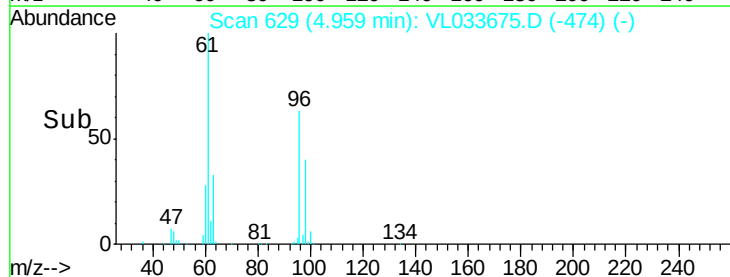
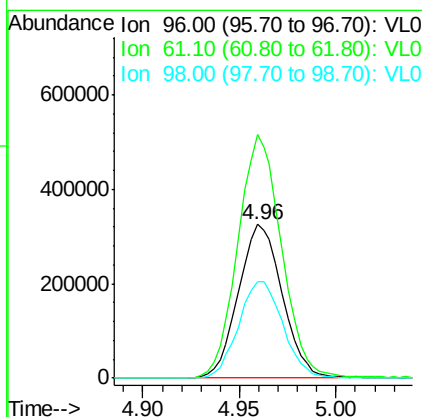
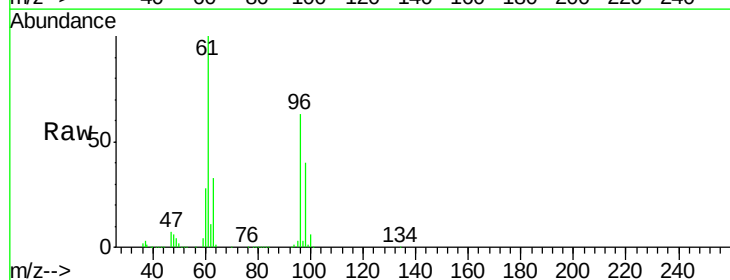
Manual Integrations
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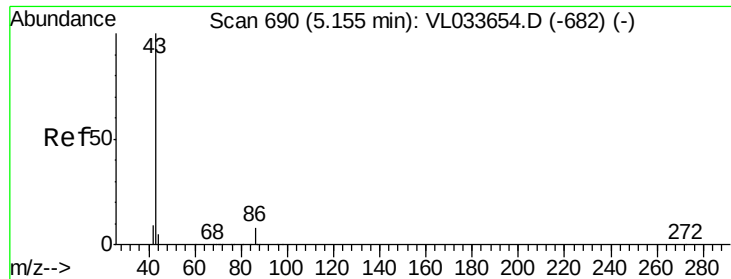
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 9.573 ppbv
RT: 4.96 min Scan# 629
Delta R.T. -0.00 min
Lab File: VL033675.D
Acq: 7 May 2019 1:47

Tgt Ion	Ratio	Lower	Upper
96	100		
61	158.2	123.1	184.7
98	62.6	52.6	79.0





#23

Vinyl Acetate

Concen: 9.836 ppbv

RT: 5.16 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL033675.D

Acq: 7 May 2019 1:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1592934

Ion Ratio Lower Upper

43 100

86 7.3 6.0 9.0

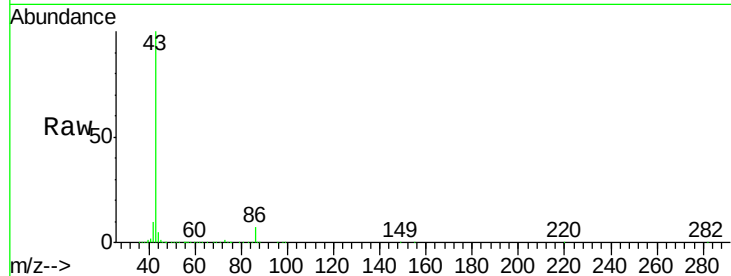
42 9.4 8.0 12.0

44 5.3 3.9 5.9

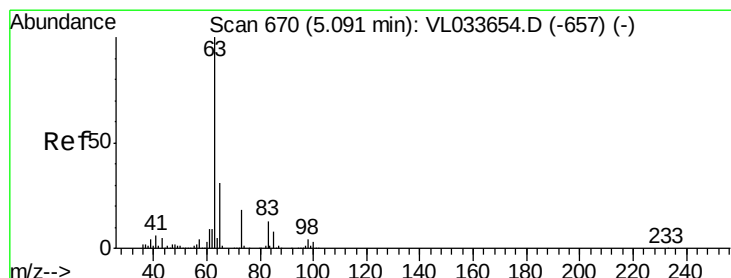
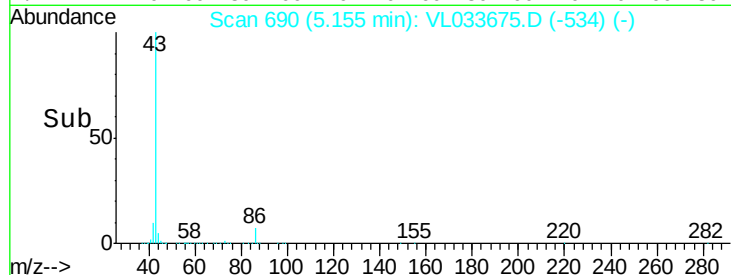
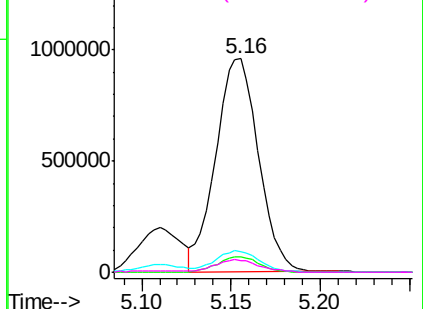
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.143 ppbv

RT: 5.09 min Scan# 670

Delta R.T. 0.00 min

Lab File: VL033675.D

Acq: 7 May 2019 1:47

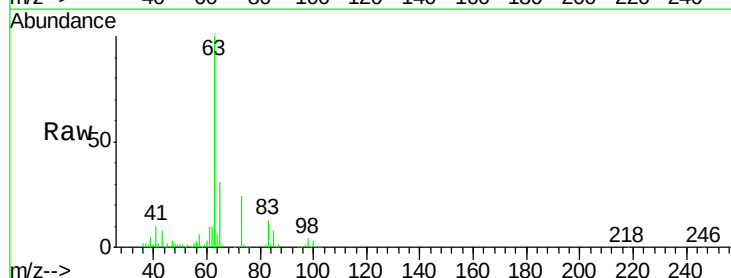
Tgt Ion: 63 Resp: 1120153

Ion Ratio Lower Upper

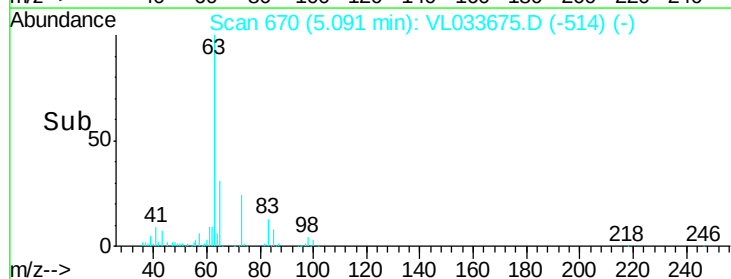
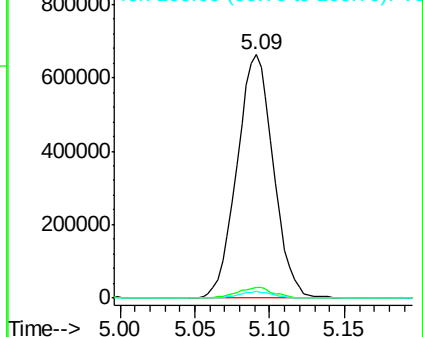
63 100

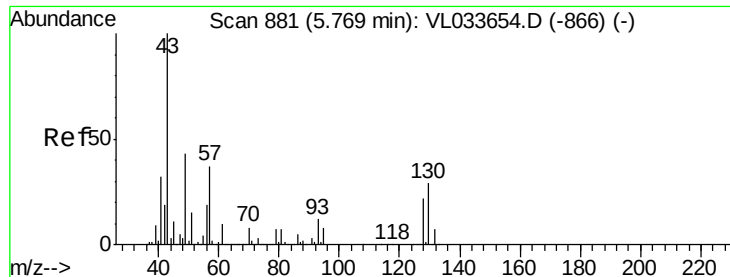
98 4.4 2.1 6.2

100 2.8 1.5 4.4



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





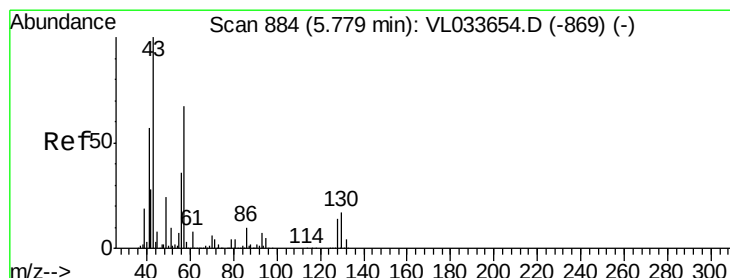
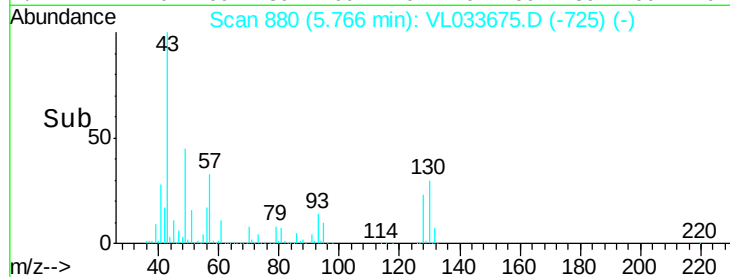
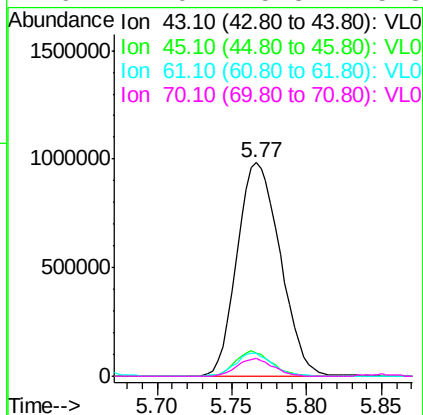
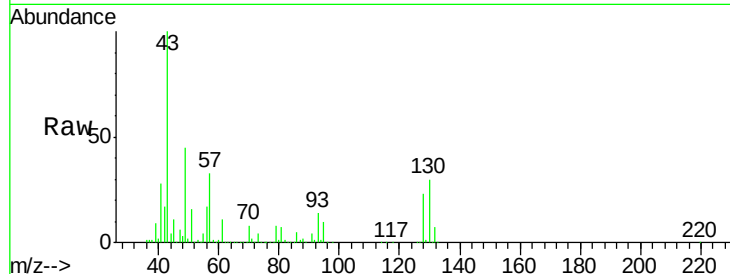
#25
Ethyl Acetate
Concen: 9.738 ppbv
RT: 5.77 min Scan# 880
Delta R.T. -0.00 min
Lab File: VL033675.D
Acq: 7 May 2019 1:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.9	8.0	12.0	
61	9.3	7.5	11.3	
70	7.0	5.8	8.8	

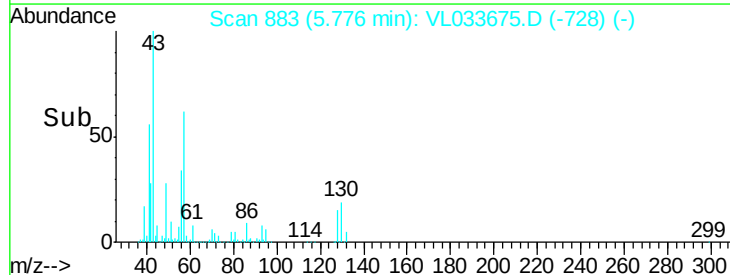
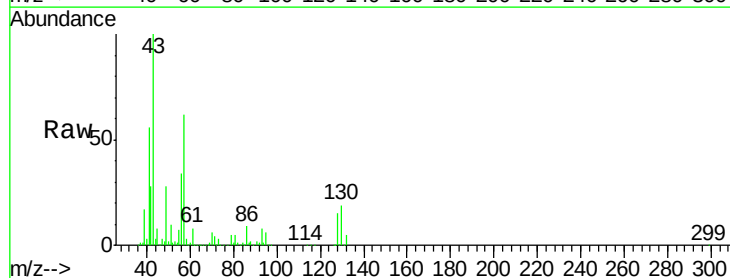
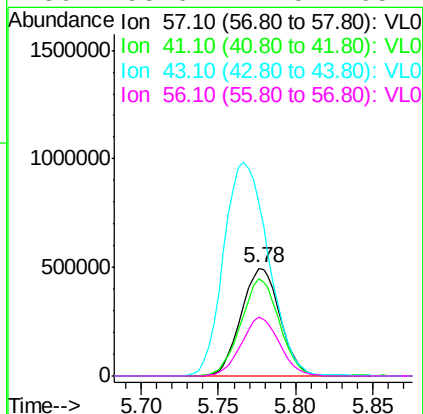
Manual Integrations
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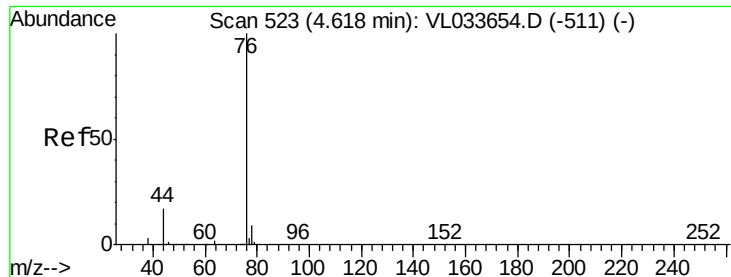
MMDadoda
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#26
Hexane
Concen: 9.974 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033675.D
Acq: 7 May 2019 1:47

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	89.2	69.7	104.5	
43	228.3	181.9	272.9	
56	53.6	42.5	63.7	





#27

Carbon Disulfide

Concen: 10.523 ppbv

RT: 4.62 min Scan# 523

Delta R.T. 0.00 min

Lab File: VL033675.D

Acq: 7 May 2019 1:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1254621

Ion Ratio Lower Upper

76 100

44 18.0 14.4 21.6

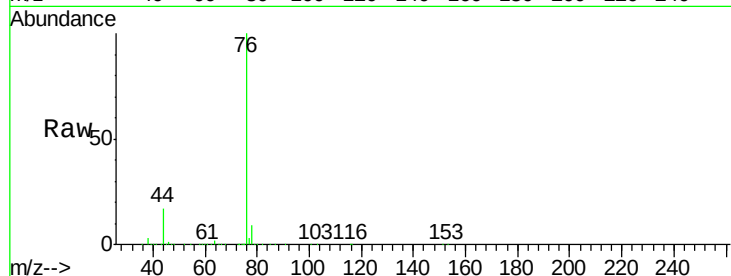
78 9.2 7.4 11.2

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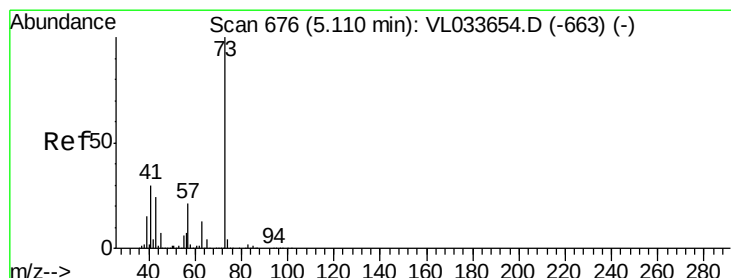
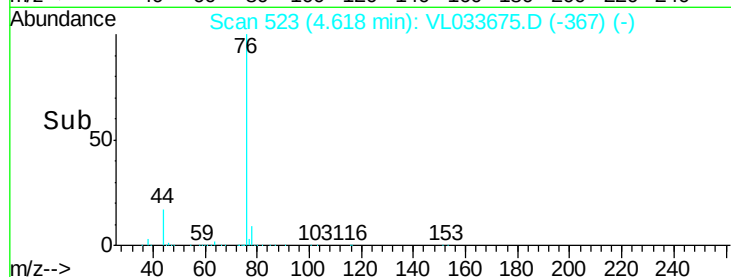
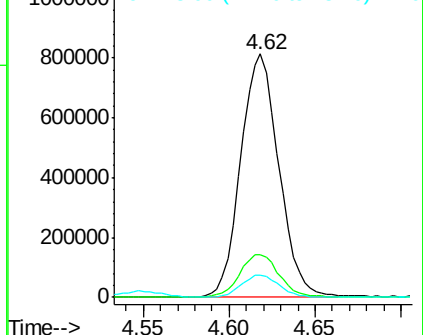
5/8/2019 12:07:16 PM



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.184 ppbv

RT: 5.11 min Scan# 676

Delta R.T. 0.00 min

Lab File: VL033675.D

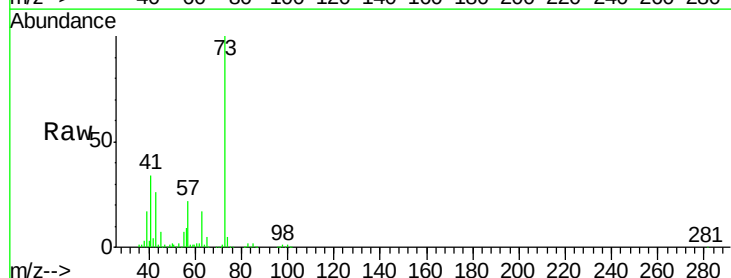
Acq: 7 May 2019 1:47

Tgt Ion: 73 Resp: 1348363

Ion Ratio Lower Upper

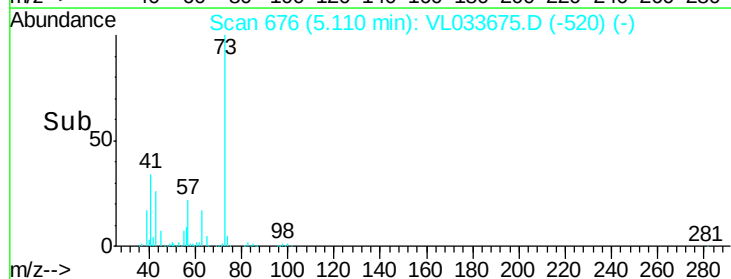
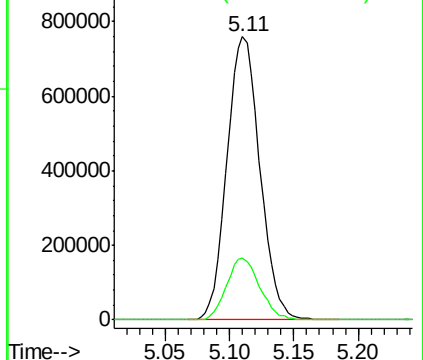
73 100

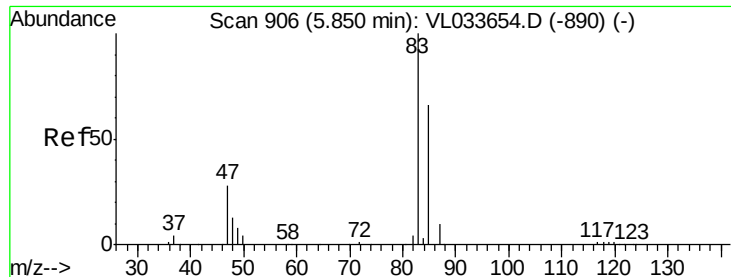
57 22.0 17.4 26.0



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





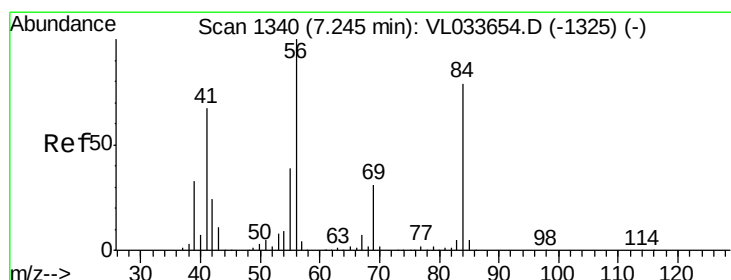
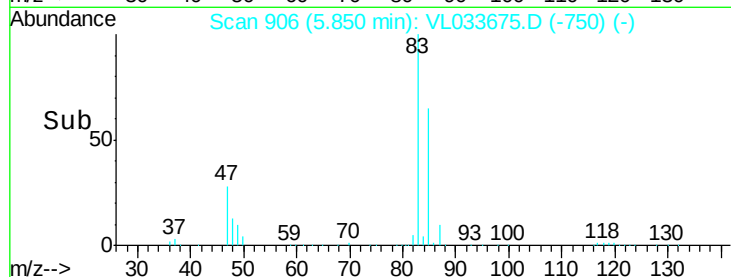
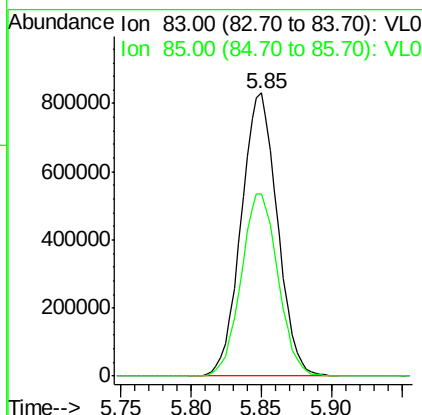
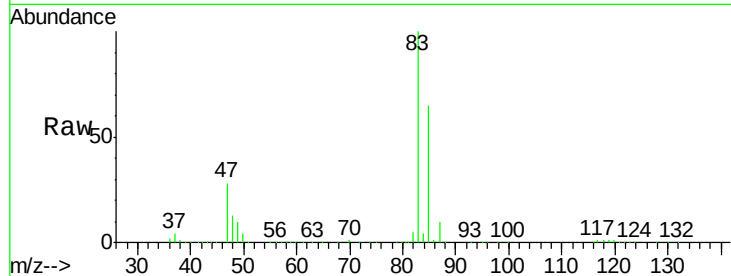
#29
Chloroform
Concen: 9.532 ppbv
RT: 5.85 min Scan# 906
Delta R.T. 0.00 min
Lab File: VL033675.D
Acq: 7 May 2019 1:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1493865
Ion Ratio Lower Upper
83 100
85 64.5 52.6 78.8

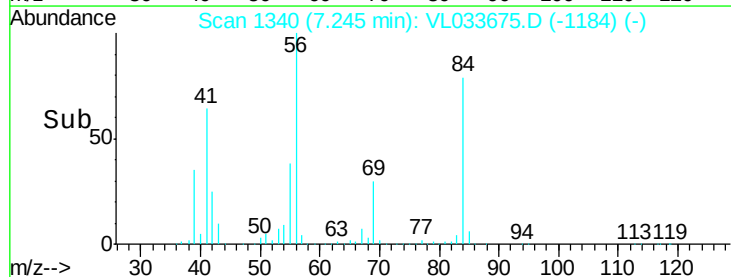
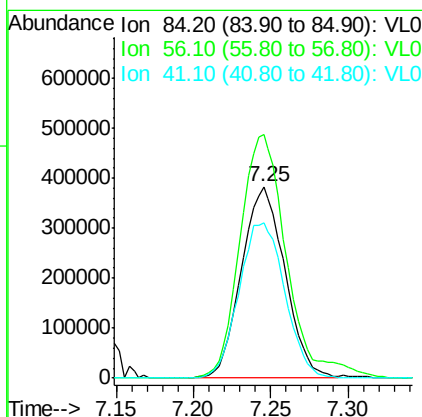
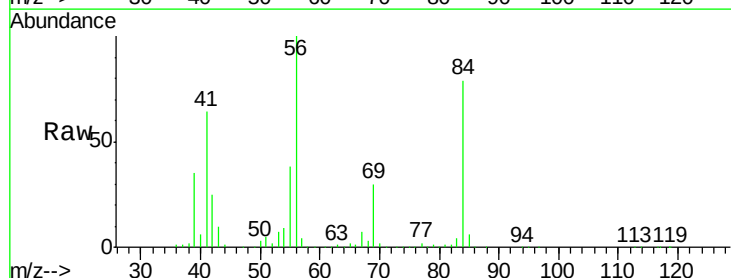
Manual Integrations
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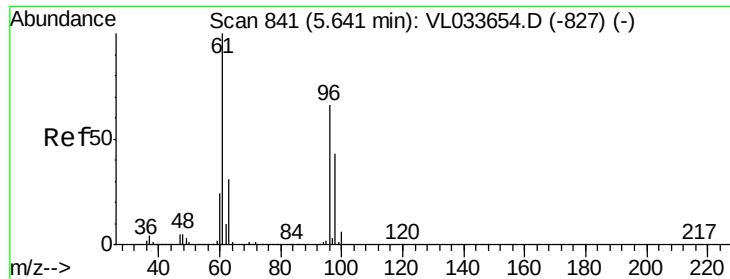
MMDadoda
5/8/2019 12:07:16 PM



#30
Cyclohexane
Concen: 10.174 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VL033675.D
Acq: 7 May 2019 1:47

Tgt Ion: 84 Resp: 744743
Ion Ratio Lower Upper
84 100
56 137.6 107.0 160.4
41 86.2 66.6 99.8





#31

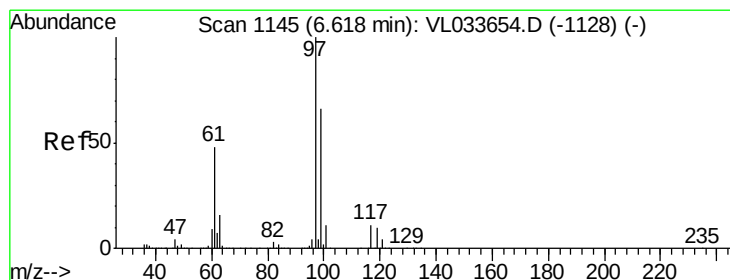
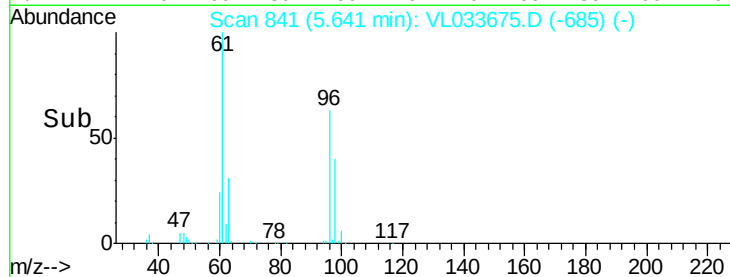
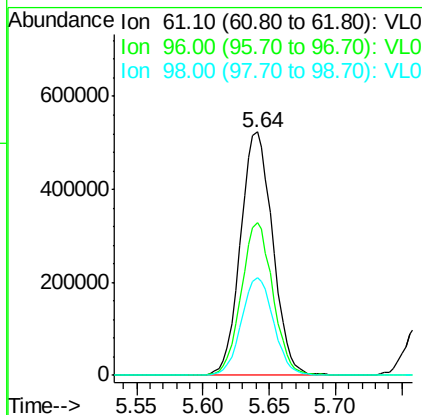
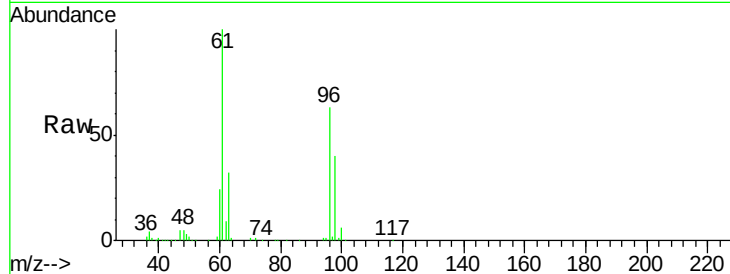
cis-1,2-Dichloroethene
 Concen: 10.197 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. 0.00 min
 Lab File: VL033675.D
 Acq: 7 May 2019 1:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	62.9	53.2	79.8
98	39.9	34.2	51.4

Manual Integrations
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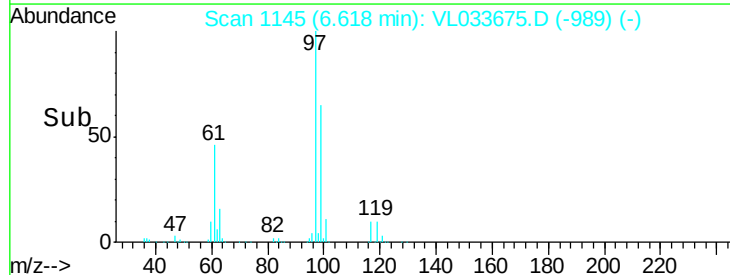
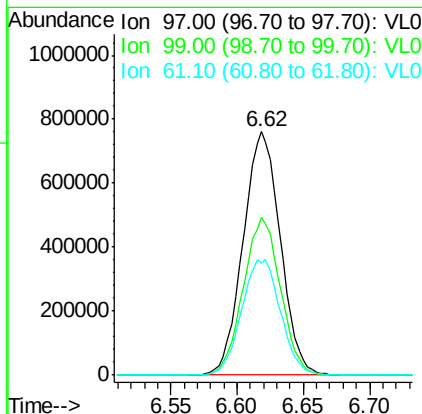
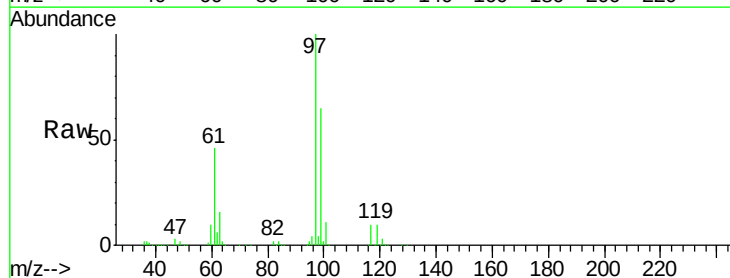
MMDadoda
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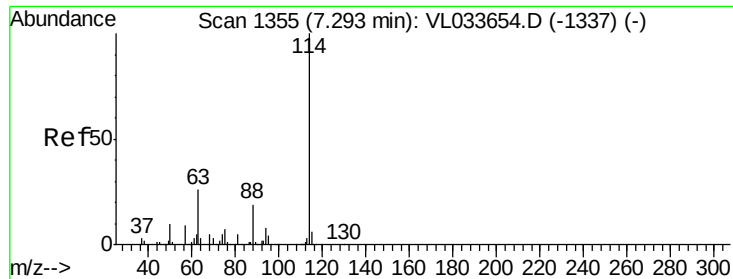


#32

1,1,1-Trichloroethane
 Concen: 9.175 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. 0.00 min
 Lab File: VL033675.D
 Acq: 7 May 2019 1:47

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.4	77.2
61	49.6	38.5	57.7





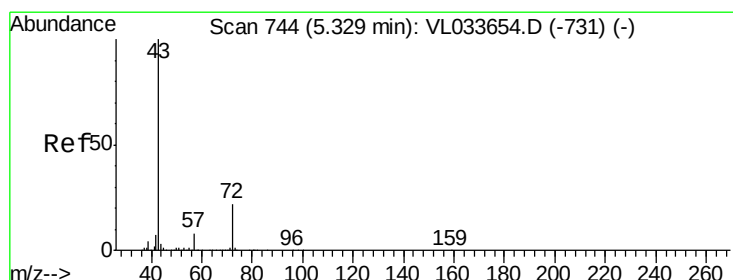
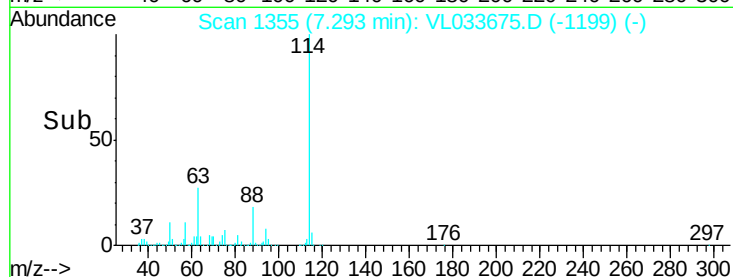
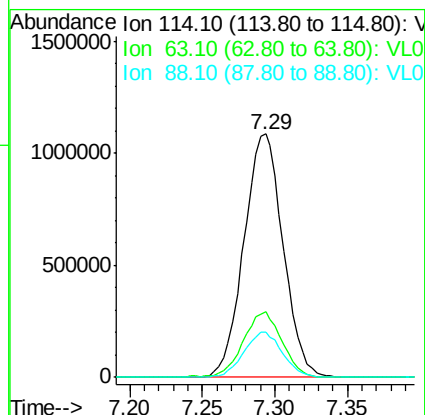
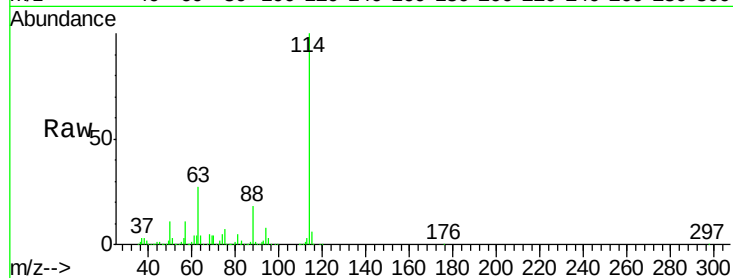
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. 0.00 min
 Lab File: VL033675.D
 Acq: 7 May 2019 1:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.1	21.3	31.9
88	18.3	14.4	21.6

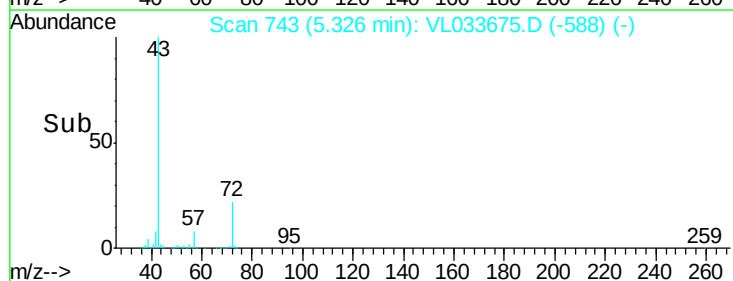
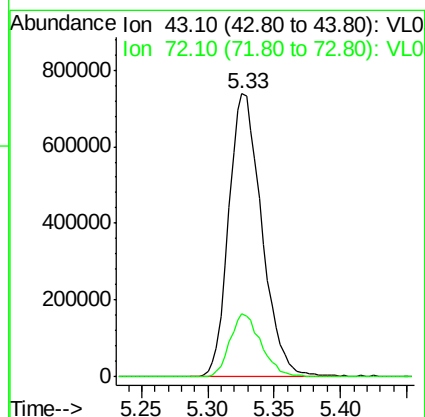
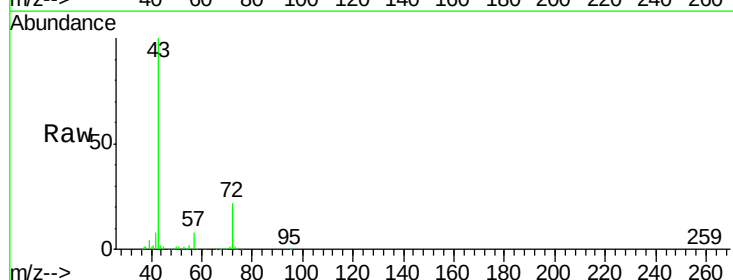
Manual Integrations
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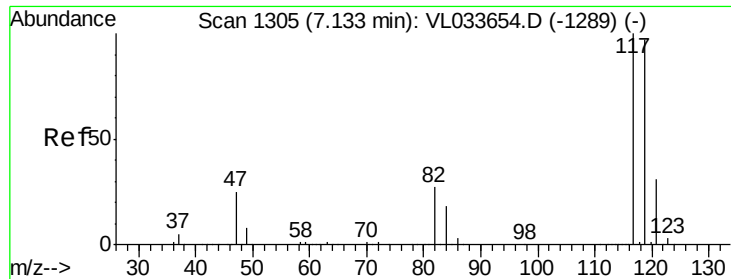
MMDadoda
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#34
 2-Butanone
 Concen: 9.772 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. -0.00 min
 Lab File: VL033675.D
 Acq: 7 May 2019 1:47

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.3	17.5	26.3





#35

Carbon Tetrachloride

Concen: 10.293 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VL033675.D

Acq: 7 May 2019 1:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 1726658

Ion Ratio Lower Upper

117 100

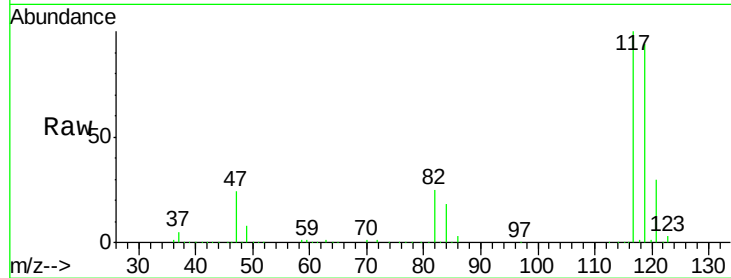
119 94.4 77.9 116.9

121 30.4 25.0 37.6

Manual Integrations
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MMDadoda

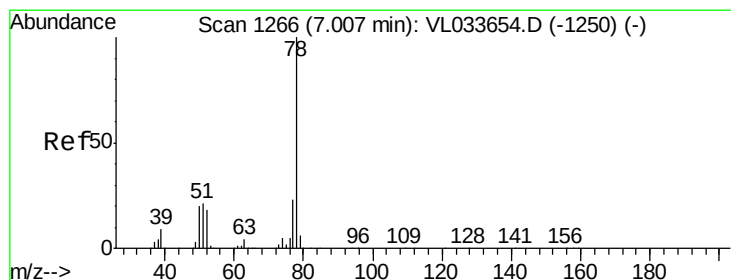
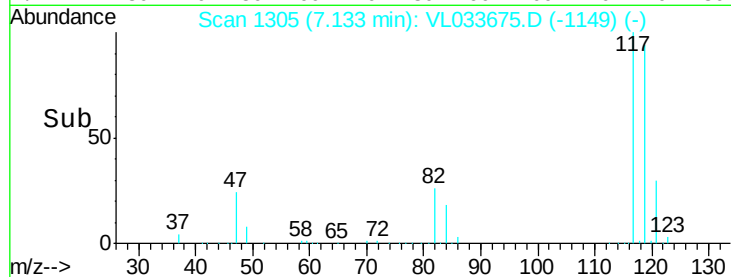
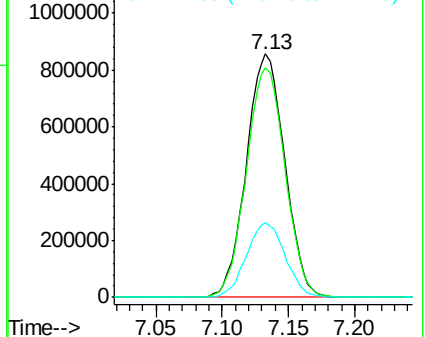
5/8/2019 12:07:16 PM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.873 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VL033675.D

Acq: 7 May 2019 1:47

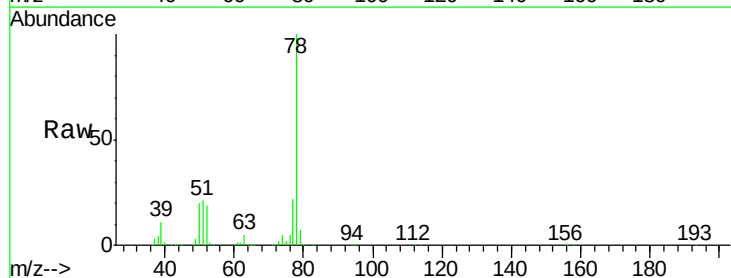
Tgt Ion: 78 Resp: 1806905

Ion Ratio Lower Upper

78 100

77 22.4 18.2 27.2

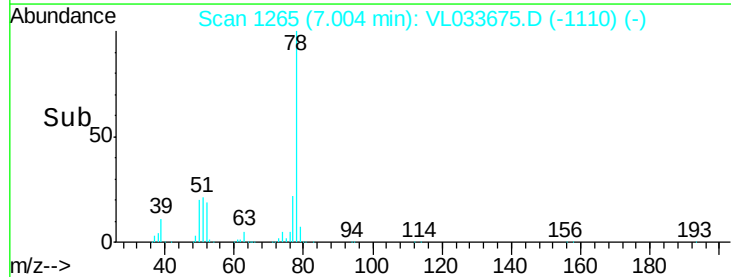
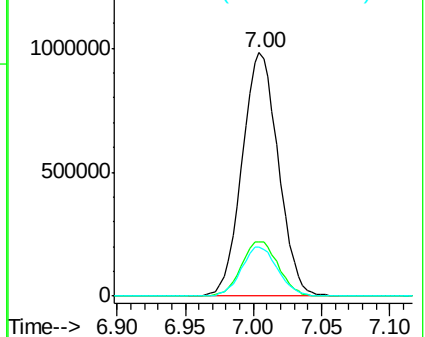
50 20.4 15.8 23.6

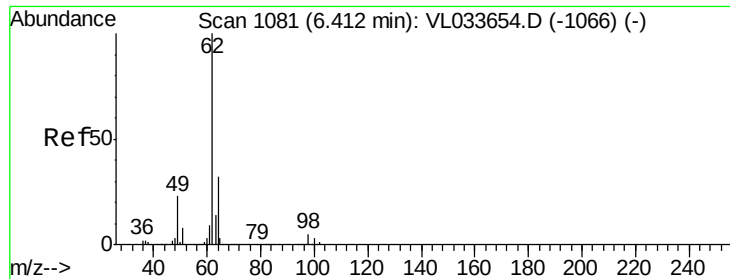


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





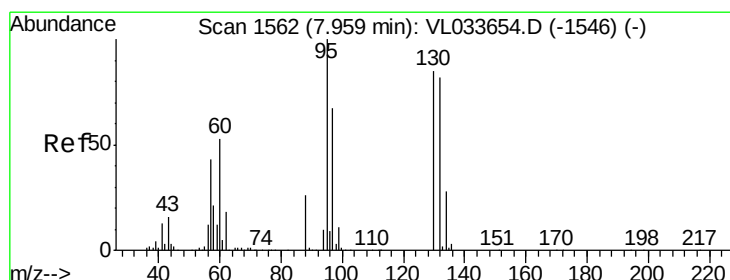
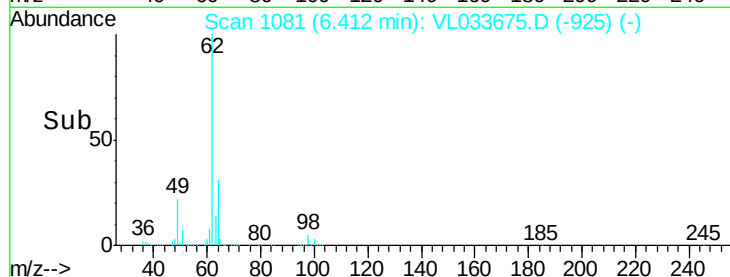
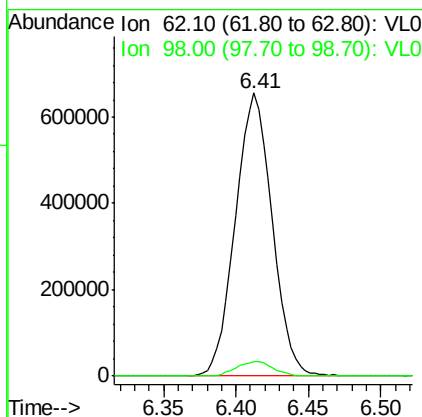
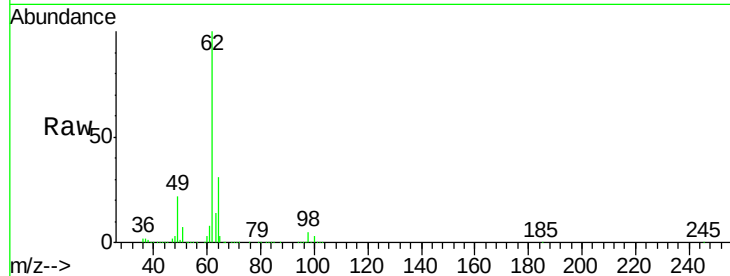
#37
1,2-Dichloroethane
Concen: 9.074 ppbv
RT: 6.41 min Scan# 1081
Delta R.T. 0.00 min
Lab File: VL033675.D
Acq: 7 May 2019 1:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 62 Resp: 1158709
Ion Ratio Lower Upper
62 100
98 5.3 4.5 6.7

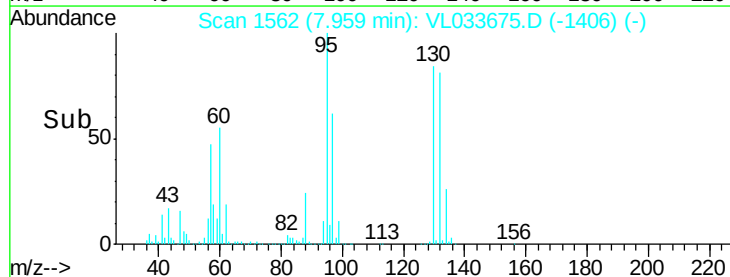
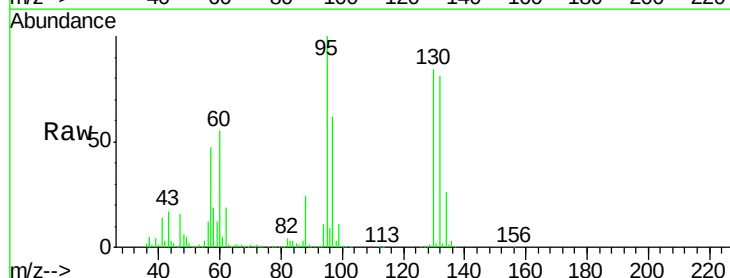
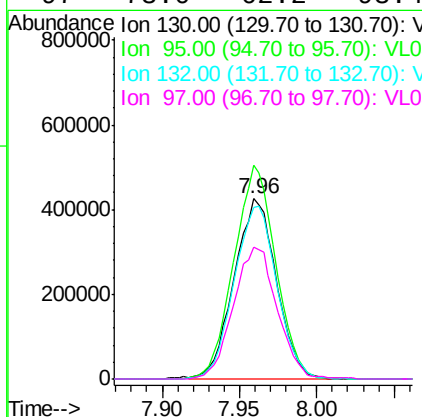
Manual Integrations
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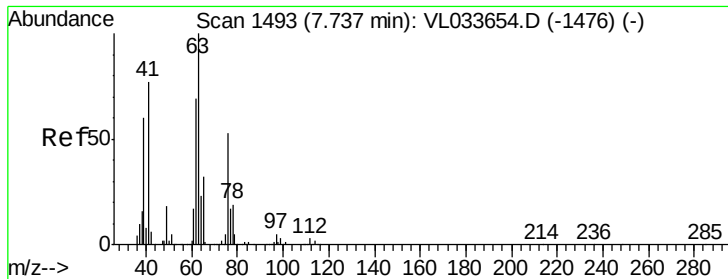
MMDadoda
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#38
Trichloroethene
Concen: 11.991 ppbv
RT: 7.96 min Scan# 1562
Delta R.T. 0.00 min
Lab File: VL033675.D
Acq: 7 May 2019 1:47

Tgt Ion:130 Resp: 805015
Ion Ratio Lower Upper
130 100
95 118.4 93.4 140.0
132 95.5 76.2 114.4
97 73.0 62.2 93.4





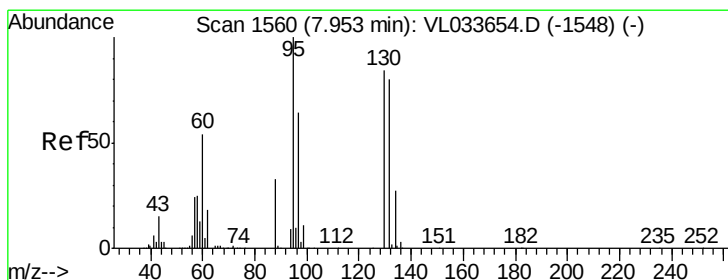
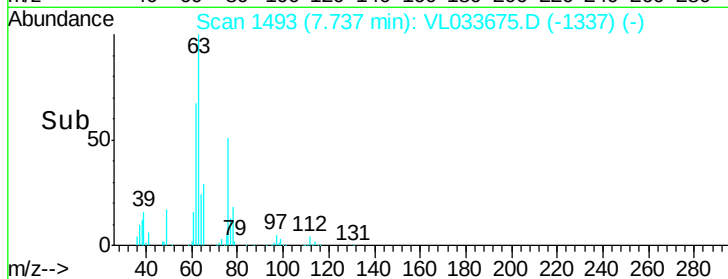
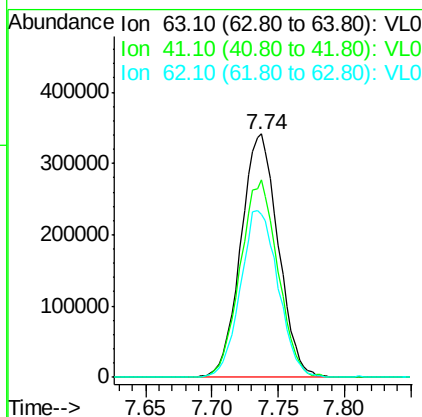
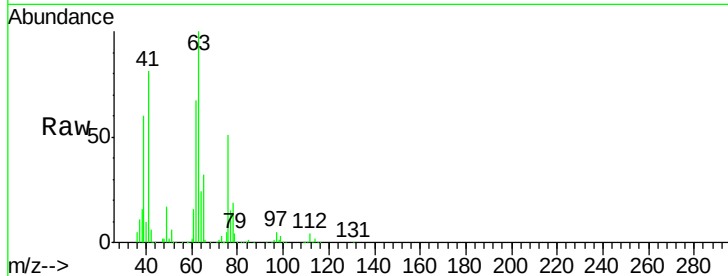
#39
 1,2-Dichloropropane
 Concen: 9.769 ppbv
 RT: 7.74 min Scan# 1493
 Delta R.T. 0.00 min
 Lab File: VL033675.D
 Acq: 7 May 2019 1:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	81.0	61.6	92.4
62	66.8	55.0	82.6

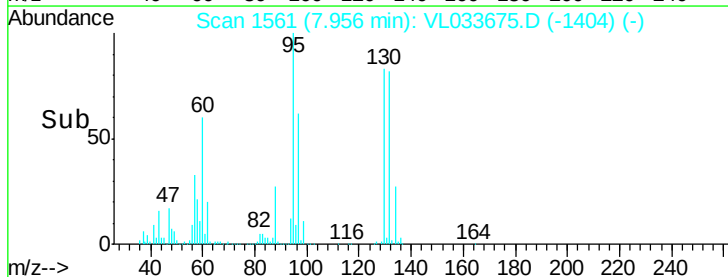
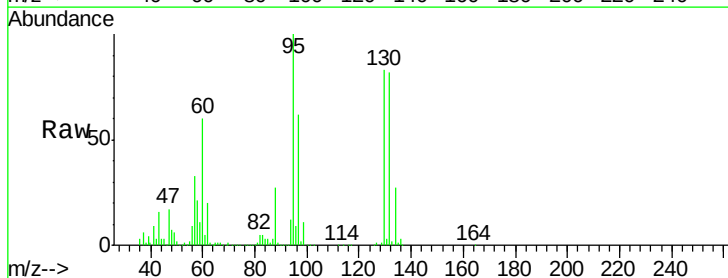
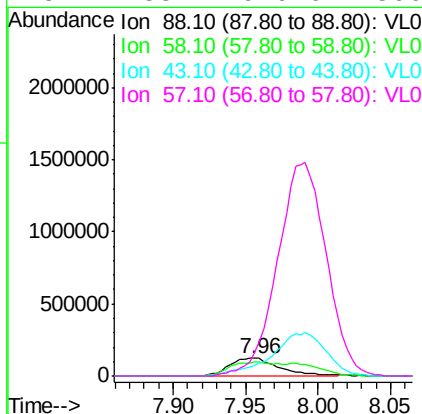
Manual Integrations
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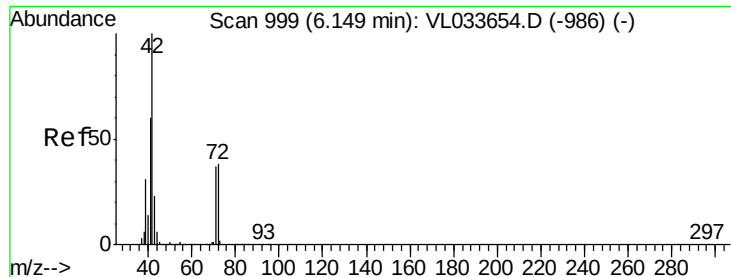
MMDadoda
 5/8/2019 12:07:16 PM



#40
 1,4-Dioxane
 Concen: 10.722 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. 0.00 min
 Lab File: VL033675.D
 Acq: 7 May 2019 1:47

Tgt Ion	Ratio	Lower	Upper
88	100		
58	129.6	102.3	153.5
43	270.0	206.1	309.1
57	1183.7	910.6	1366.0





#41

Tetrahydrofuran

Concen: 10.405 ppbv

RT: 6.15 min Scan# 998

Delta R.T. -0.00 min

Lab File: VL033675.D

Acq: 7 May 2019 1:47

Instrument :

MSVOA_L

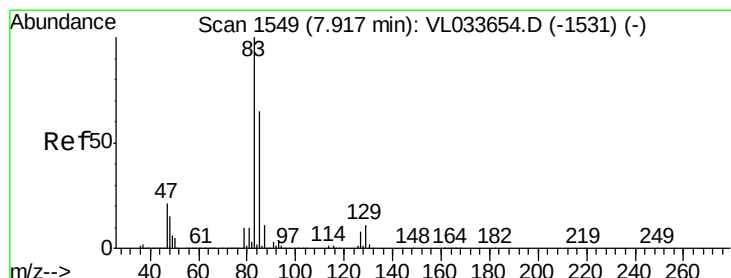
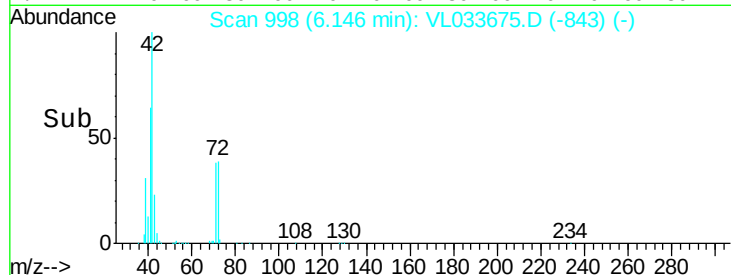
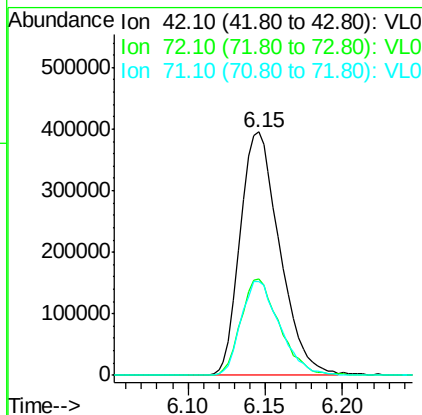
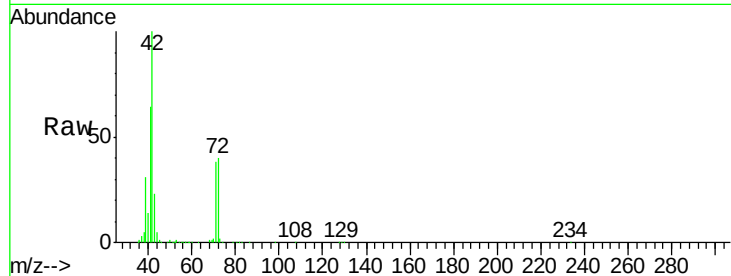
ClientSampleId :

VSTDCCC010EC

Tot Ion:	42	Resp:	702784
Ion	Ratio	Lower	Upper
42	100		
72	38.8	31.6	47.4
71	38.0	30.6	46.0

Manual Integrations
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#42

Bromodichloromethane

Concen: 10.590 ppbv

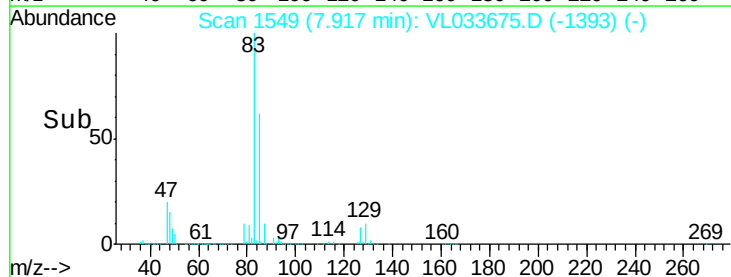
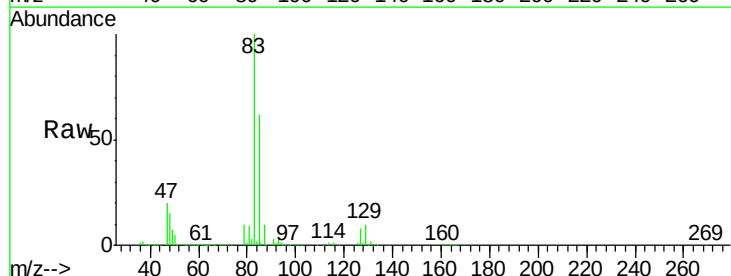
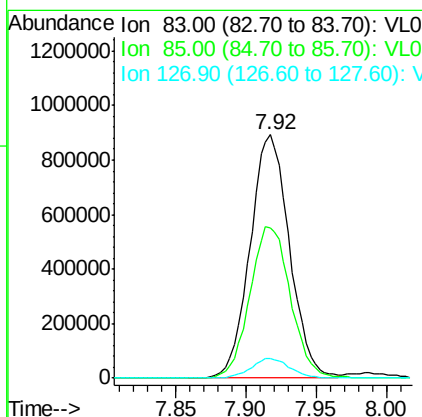
RT: 7.92 min Scan# 1549

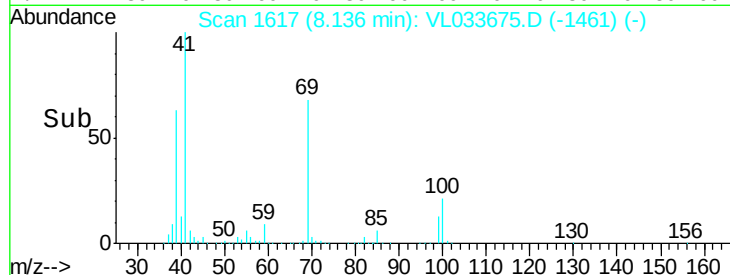
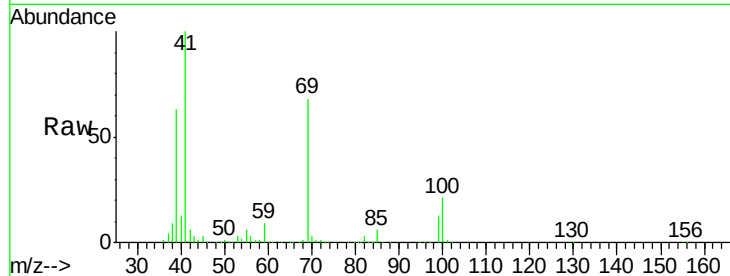
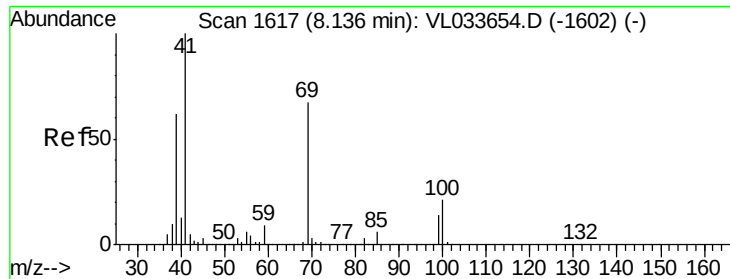
Delta R.T. 0.00 min

Lab File: VL033675.D

Acq: 7 May 2019 1:47

Tgt Ion:	83	Resp:	1746066
Ion	Ratio	Lower	Upper
83	100		
85	61.8	52.4	78.6
127	8.3	6.6	9.8





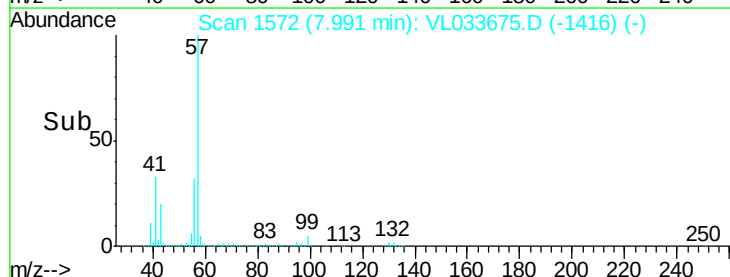
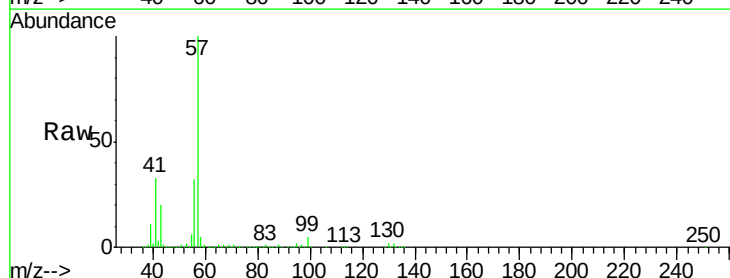
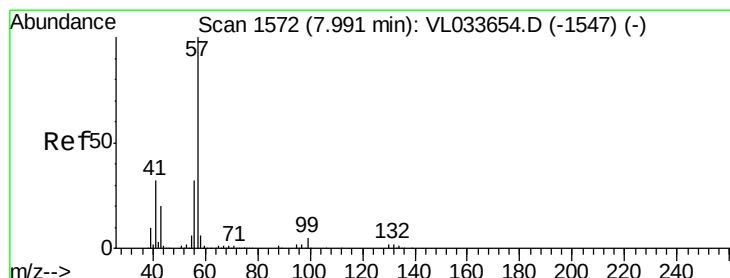
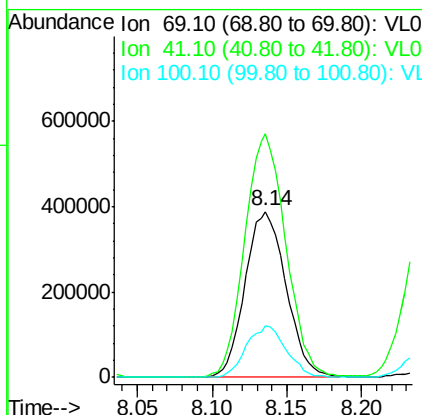
#43
Methyl Methacrylate
Concen: 10.777 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. 0.00 min
Lab File: VL033675.D
Acq: 7 May 2019 1:47

Tot Ion	Ratio	Lower	Upper
69	100		
41	147.2	116.6	175.0
100	30.3	24.6	37.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

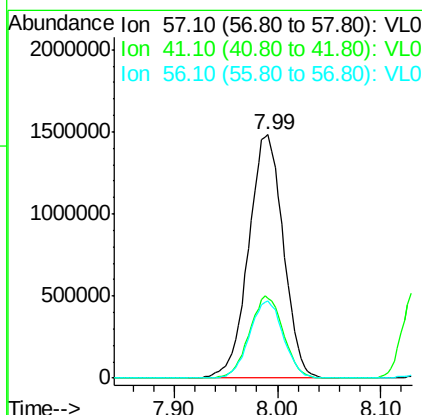
Manual Integrations
APPROVED

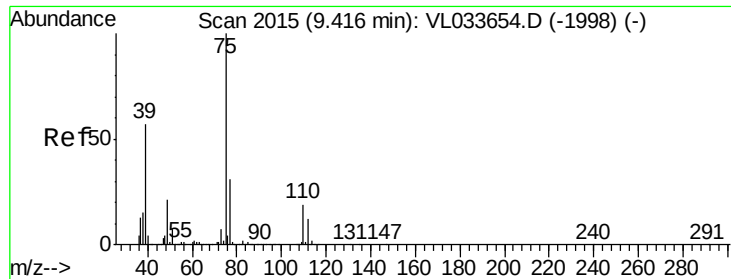
MMDadoda
5/8/2019 12:07:16 PM



#44
2,2,4-Trimethylpentane
Concen: 11.050 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VL033675.D
Acq: 7 May 2019 1:47

Tgt Ion	Ratio	Lower	Upper
57	100		
41	33.0	25.7	38.5
56	30.9	25.0	37.6





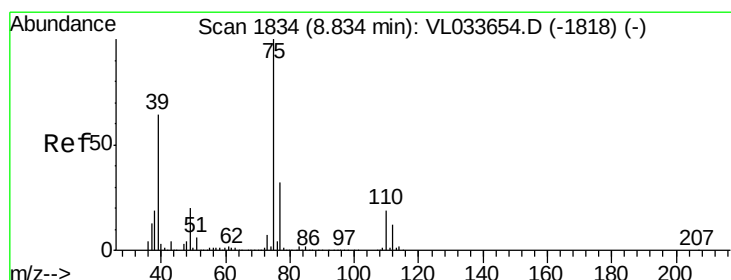
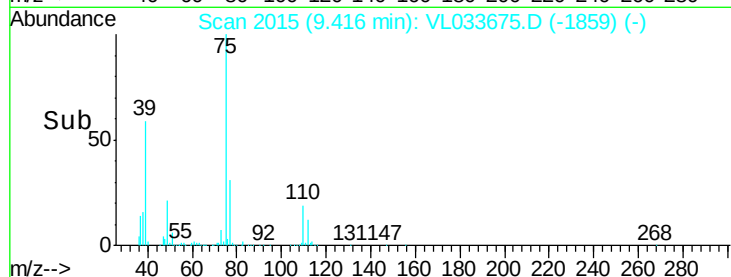
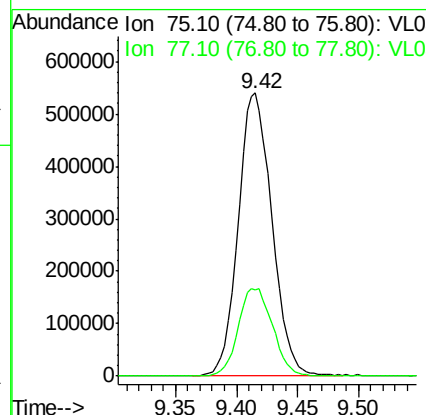
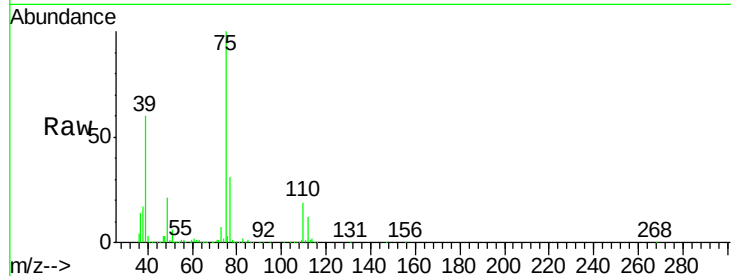
#45
t-1,3-Dichloropropene
Concen: 12.190 ppbv
RT: 9.42 min Scan# 2015
Delta R.T. 0.00 min
Lab File: VL033675.D
Acq: 7 May 2019 1:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 75 Resp: 1029952
Ion Ratio Lower Upper
75 100
77 30.5 24.7 37.1

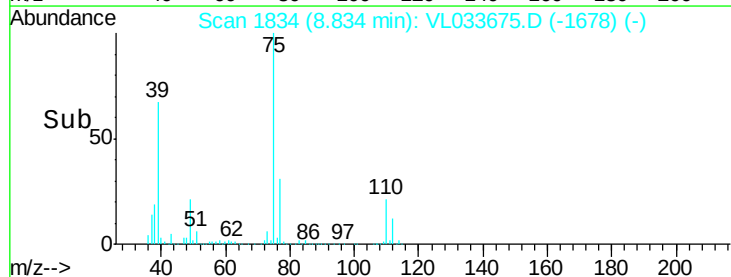
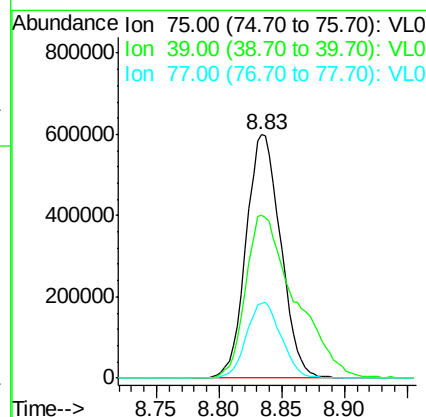
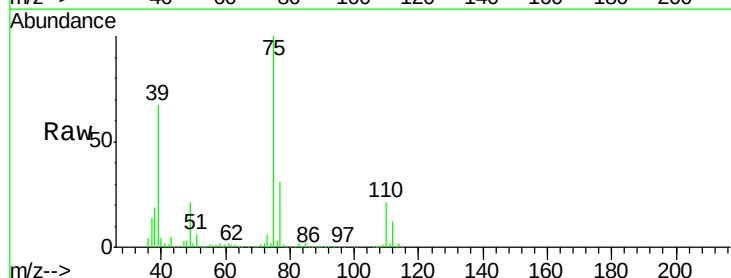
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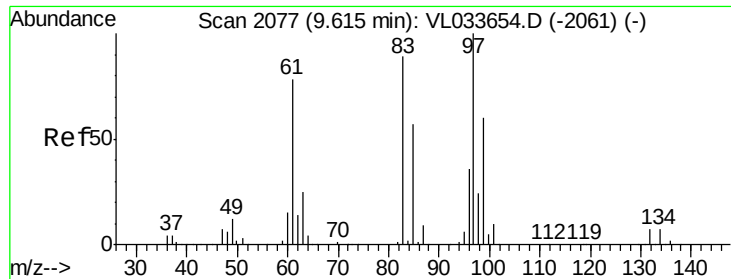
MMDadoda
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#46
cis-1,3-Dichloropropene
Concen: 10.901 ppbv
RT: 8.83 min Scan# 1834
Delta R.T. 0.00 min
Lab File: VL033675.D
Acq: 7 May 2019 1:47

Tgt Ion: 75 Resp: 1149503
Ion Ratio Lower Upper
75 100
39 66.7 51.5 77.3
77 30.9 25.4 38.0





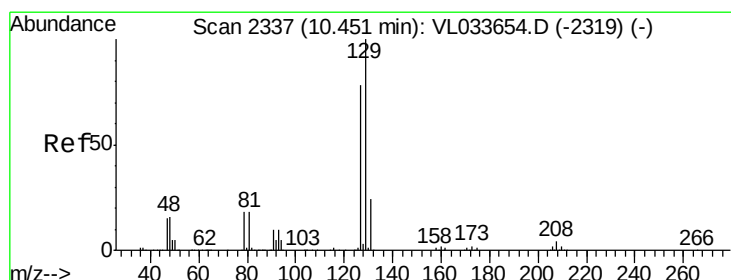
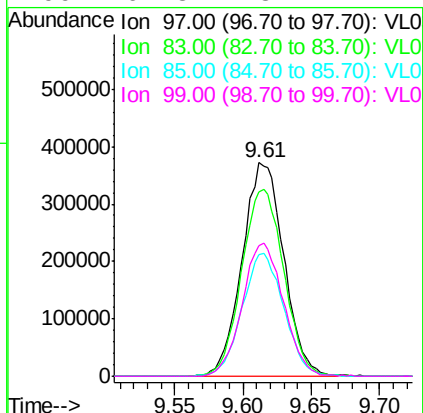
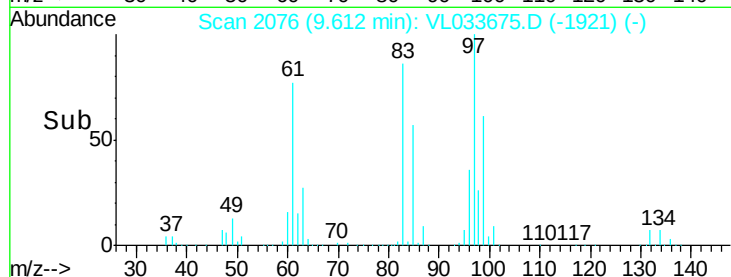
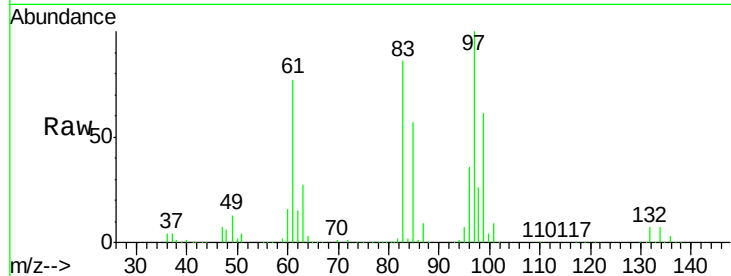
#47
 1,1,2-Trichloroethane
 Concen: 10.063 ppbv
 RT: 9.61 min Scan# 2076
 Delta R.T. -0.00 min
 Lab File: VL033675.D
 Acq: 7 May 2019 1:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:	97	Resp:	788241
Ion Ratio	Lower	Upper	
97	100		
83	86.2	70.9	106.3
85	56.5	45.8	68.6
99	61.3	48.2	72.4

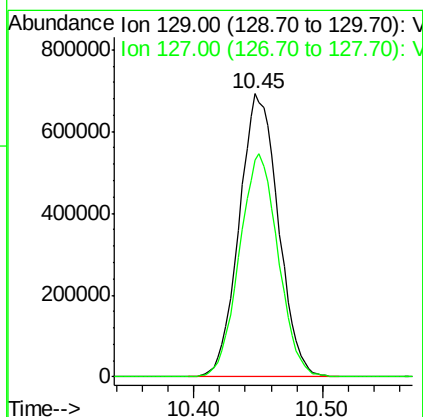
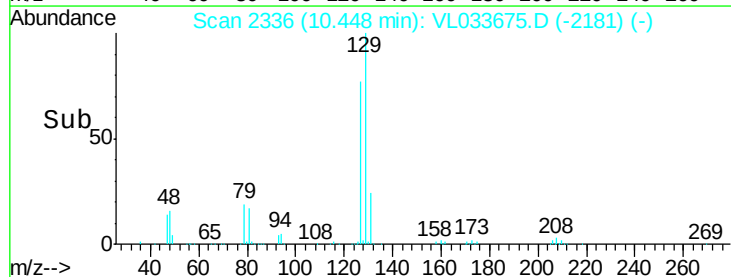
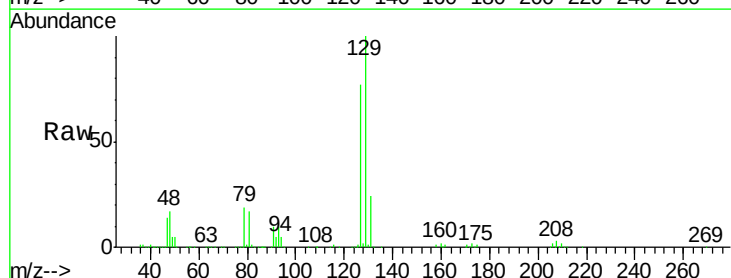
Manual Integrations
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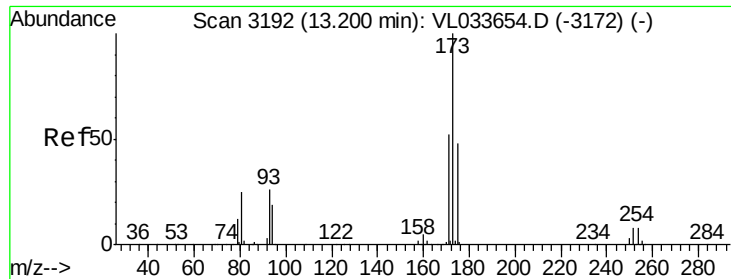
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#48
 Dibromochloromethane
 Concen: 11.019 ppbv
 RT: 10.45 min Scan# 2336
 Delta R.T. -0.00 min
 Lab File: VL033675.D
 Acq: 7 May 2019 1:47

Tgt Ion:	129	Resp:	1463260
Ion Ratio	Lower	Upper	
129	100		
127	78.0	39.1	117.2





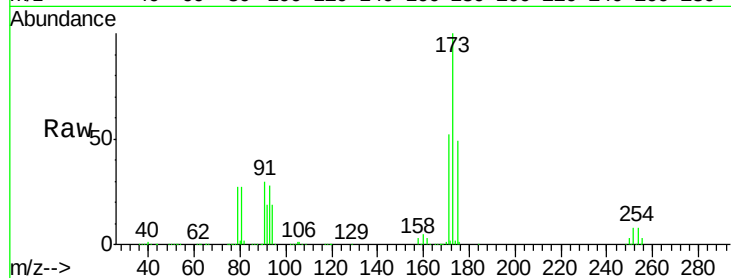
#49
Bromoform
Concen: 11.295 ppbv
RT: 13.20 min Scan# 3192
Delta R.T. 0.00 min
Lab File: VL033675.D
Acq: 7 May 2019 1:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

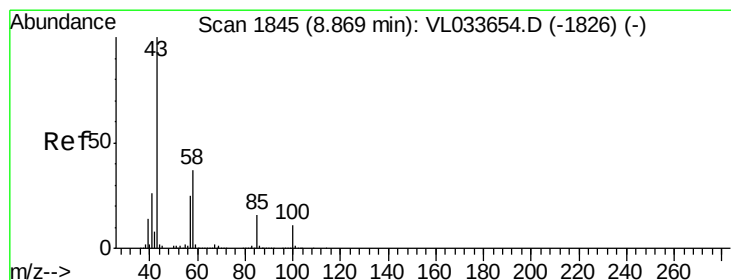
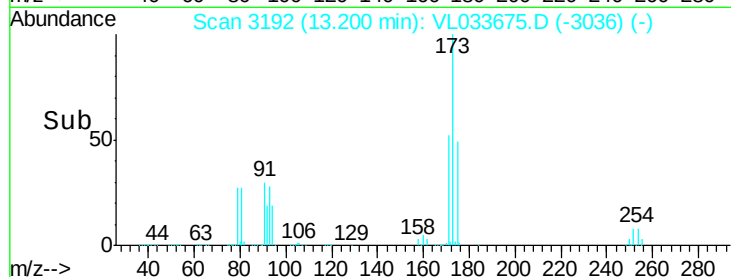
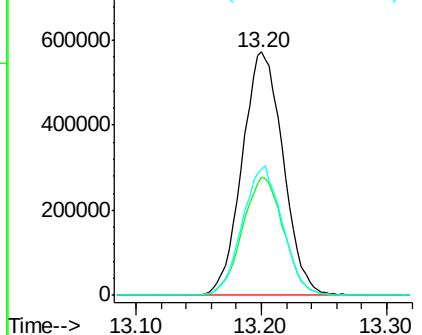
Tot Ion:173 Resp: 1302793
Ion Ratio Lower Upper
173 100
175 48.7 39.3 58.9
171 52.1 41.5 62.3

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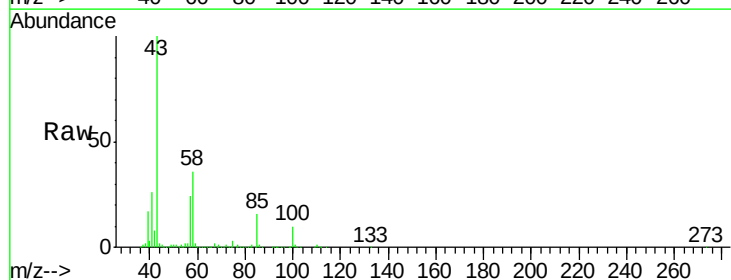


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

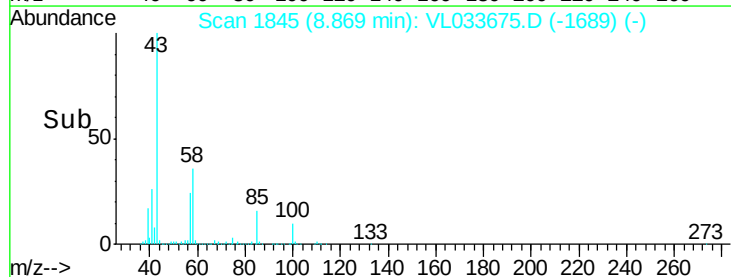
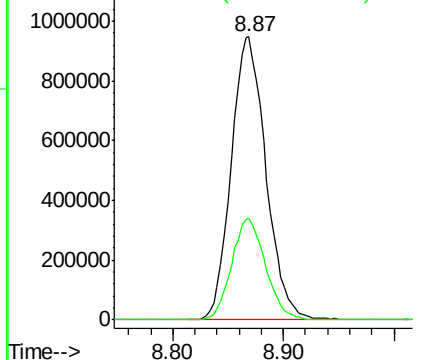


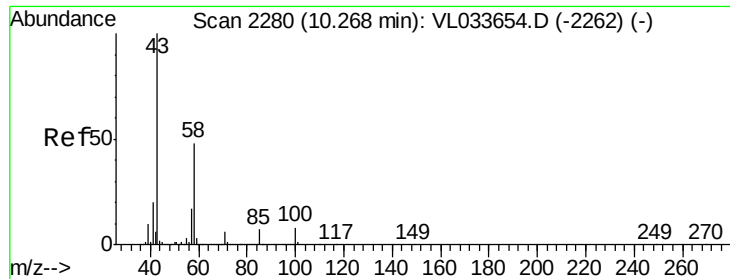
#50
4-Methyl-2-Pentanone
Concen: 10.404 ppbv
RT: 8.87 min Scan# 1845
Delta R.T. 0.00 min
Lab File: VL033675.D
Acq: 7 May 2019 1:47

Tgt Ion: 43 Resp: 2059053
Ion Ratio Lower Upper
43 100
58 35.2 28.8 43.2



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





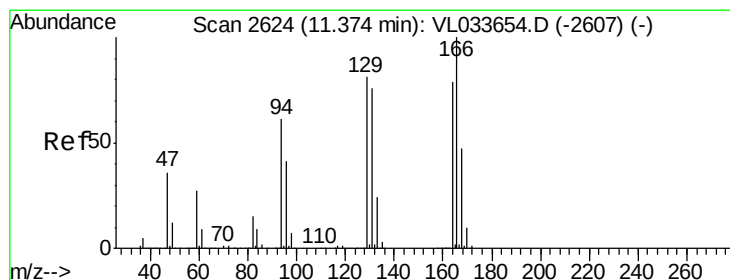
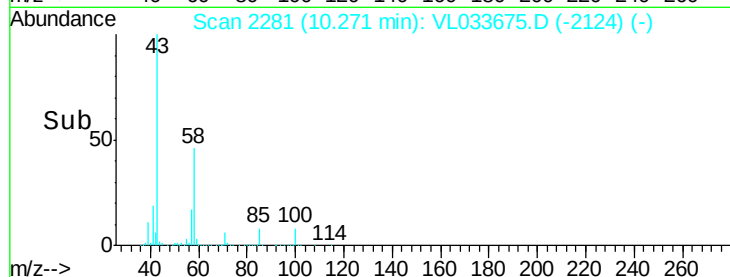
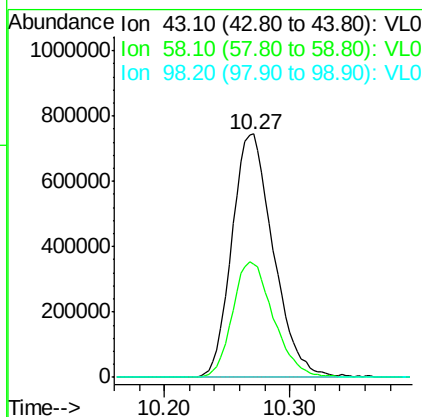
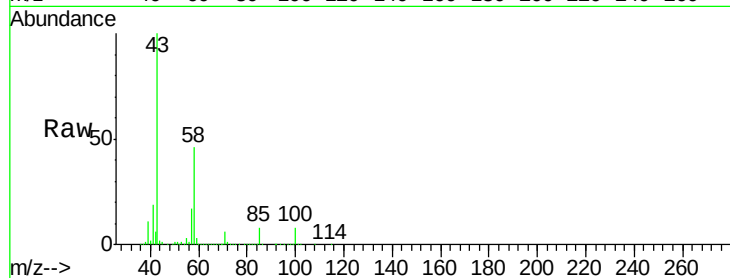
#51
2-Hexanone
Concen: 11.096 ppbv
RT: 10.27 min Scan# 2281
Delta R.T. 0.00 min
Lab File: VL033675.D
Acq: 7 May 2019 1:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1701246
Ion Ratio Lower Upper
43 100
58 47.4 38.2 57.4
98 0.4 0.2 0.4#

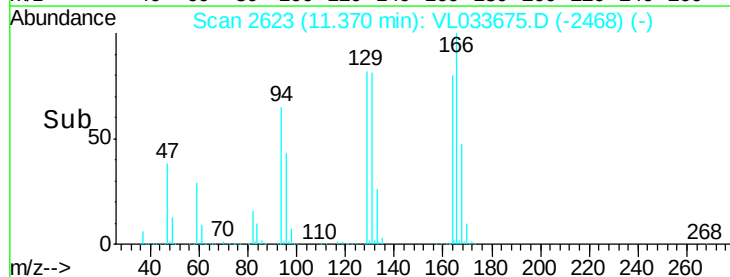
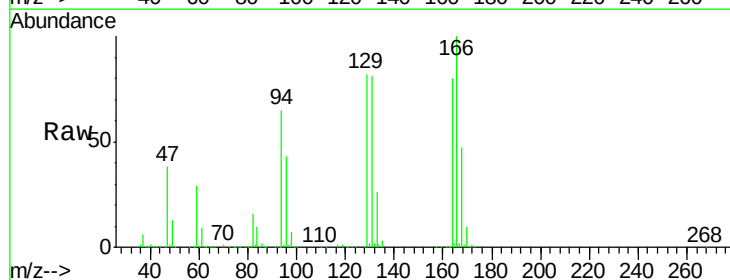
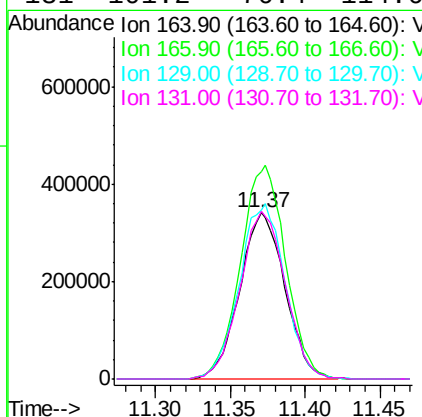
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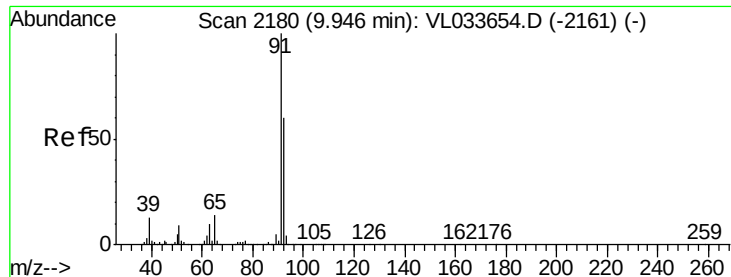
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#52
Tetrachloroethene
Concen: 10.934 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. -0.00 min
Lab File: VL033675.D
Acq: 7 May 2019 1:47

Tgt Ion: 164 Resp: 708955
Ion Ratio Lower Upper
164 100
166 124.9 100.6 151.0
129 102.2 81.0 121.6
131 101.2 76.4 114.6





#53

Toluene

Concen: 11.176 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033675.D

Acq: 7 May 2019 1:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2210020

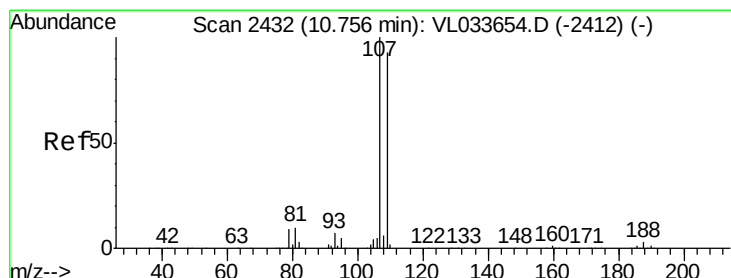
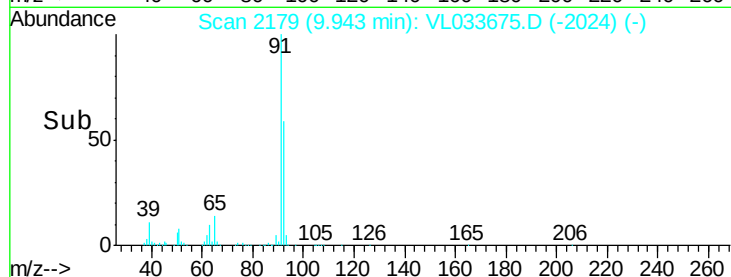
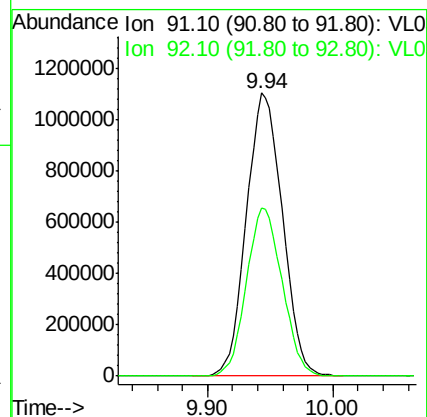
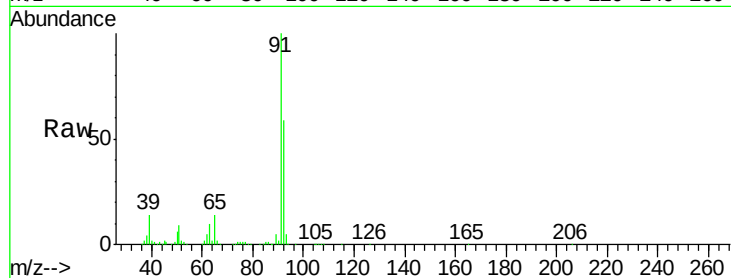
Ion Ratio Lower Upper

91 100

92 59.0 47.7 71.5

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#54

1,2-Dibromoethane

Concen: 10.684 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. 0.00 min

Lab File: VL033675.D

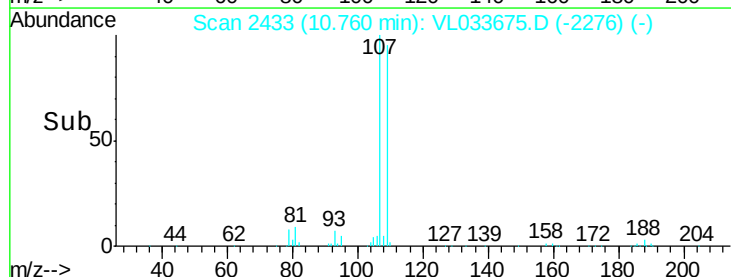
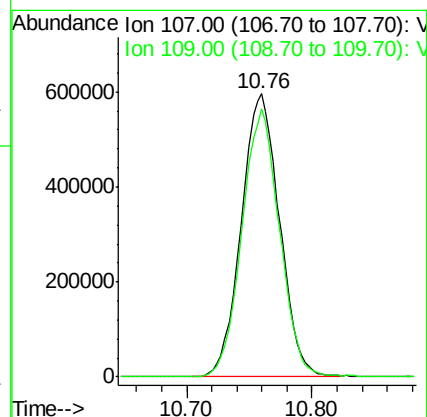
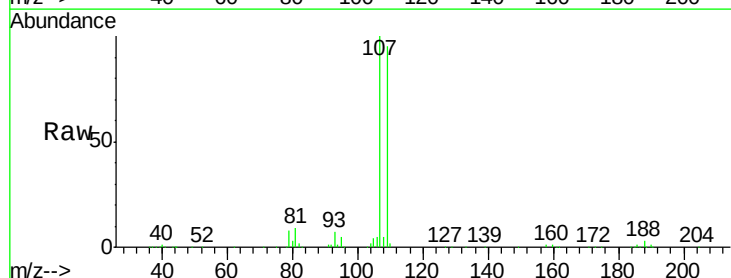
Acq: 7 May 2019 1:47

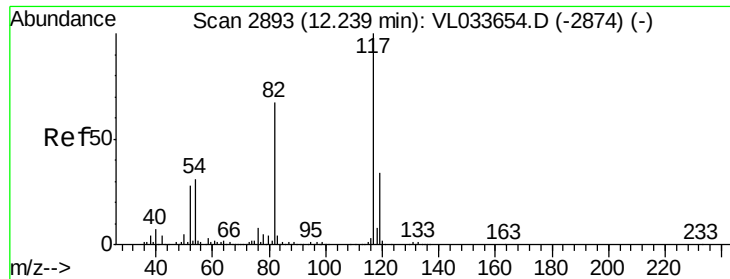
Tgt Ion: 107 Resp: 1260694

Ion Ratio Lower Upper

107 100

109 94.7 74.6 111.8





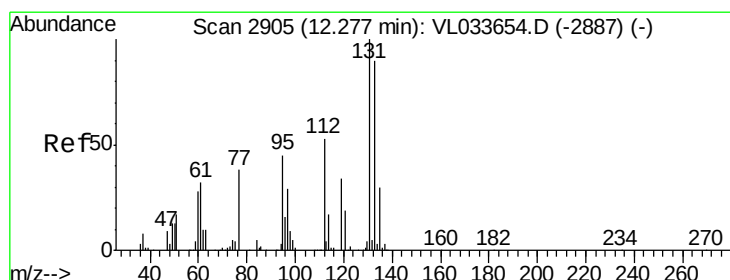
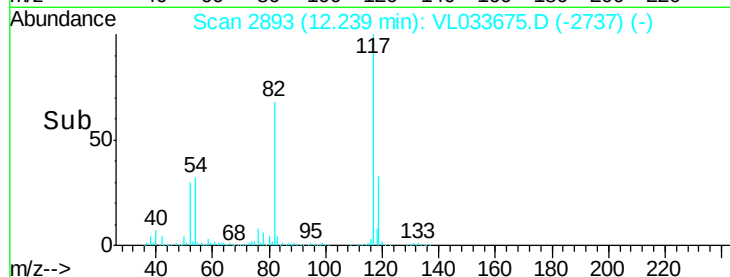
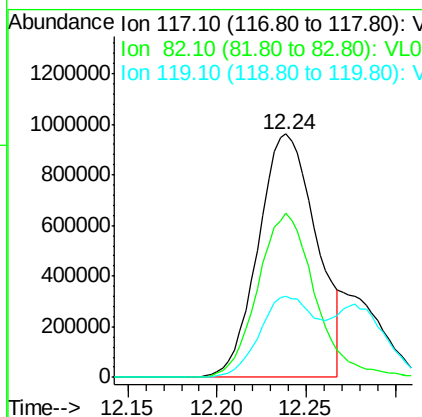
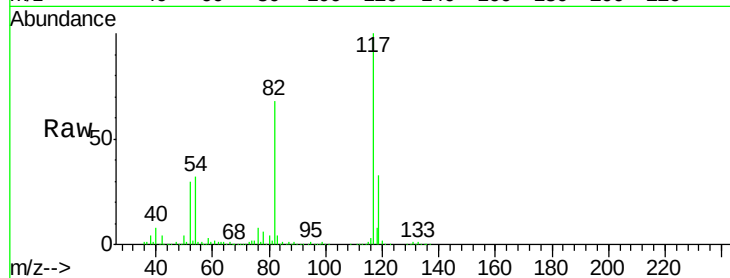
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2893
Delta R.T. 0.00 min
Lab File: VL033675.D
Acq: 7 May 2019 1:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 2189389
Ion Ratio Lower Upper
117 100
82 66.9 49.7 74.5
119 32.9 24.8 37.2

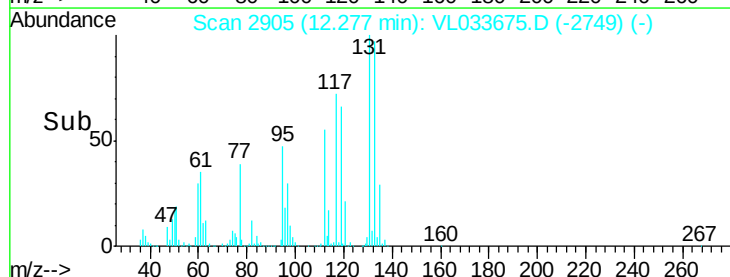
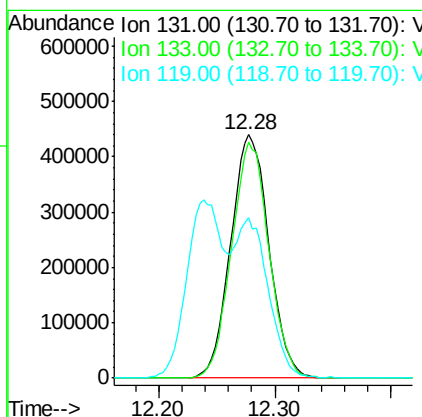
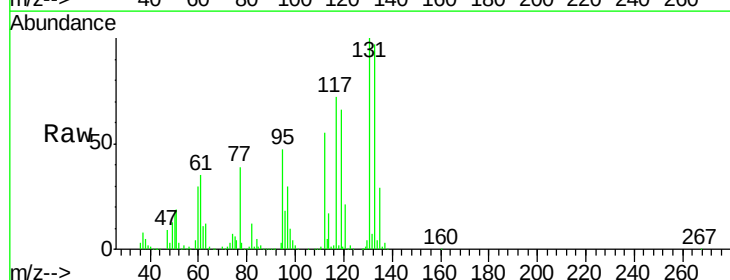
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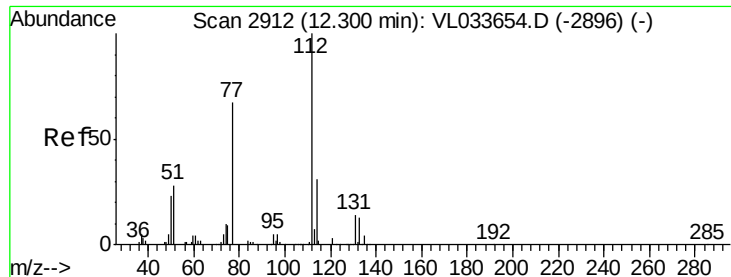
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.952 ppbv
RT: 12.28 min Scan# 2905
Delta R.T. 0.00 min
Lab File: VL033675.D
Acq: 7 May 2019 1:47

Tgt Ion:131 Resp: 1005051
Ion Ratio Lower Upper
131 100
133 94.8 76.0 114.0
119 57.5 45.4 68.2





#57

Chlorobenzene

Concen: 9.801 ppbv

RT: 12.30 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VL033675.D

Acq: 7 May 2019 1:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:112 Resp: 1761915

Ion Ratio Lower Upper

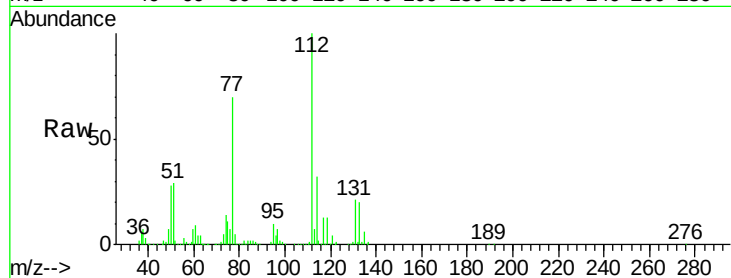
112 100

77 69.4 54.4 81.6

114 31.4 28.2 34.4

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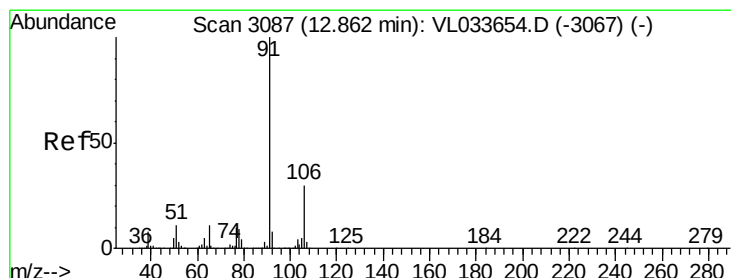
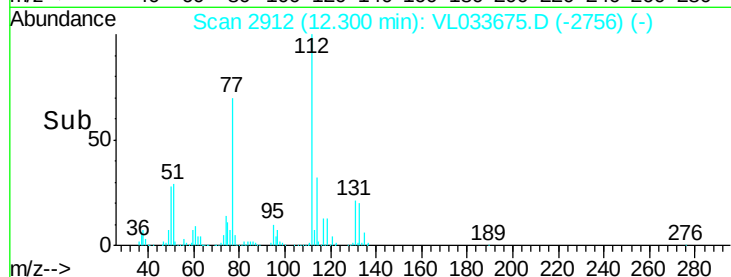
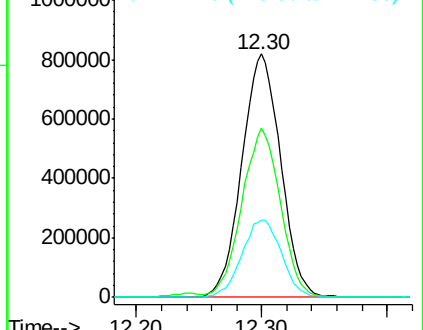
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.831 ppbv

RT: 12.86 min Scan# 3087

Delta R.T. 0.00 min

Lab File: VL033675.D

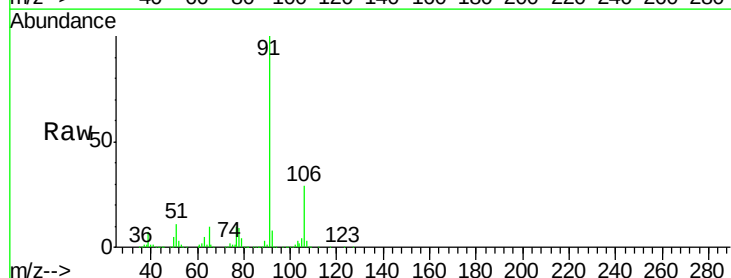
Acq: 7 May 2019 1:47

Tgt Ion: 91 Resp: 3092527

Ion Ratio Lower Upper

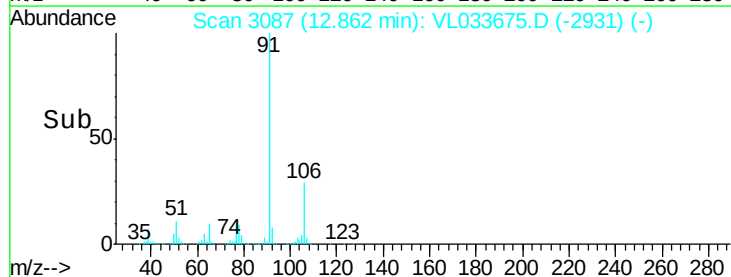
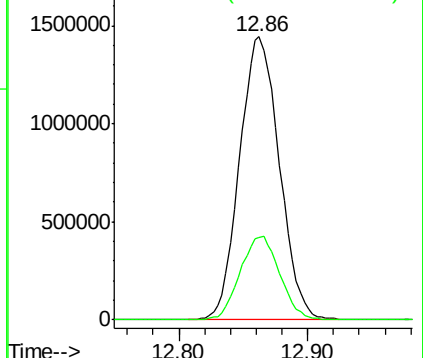
91 100

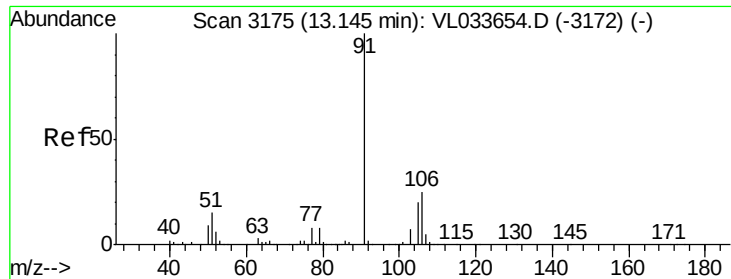
106 29.1 23.7 35.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





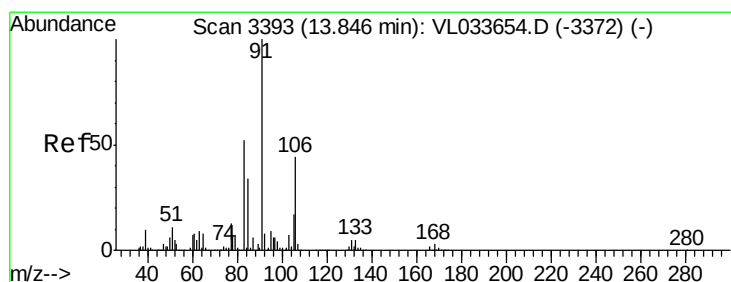
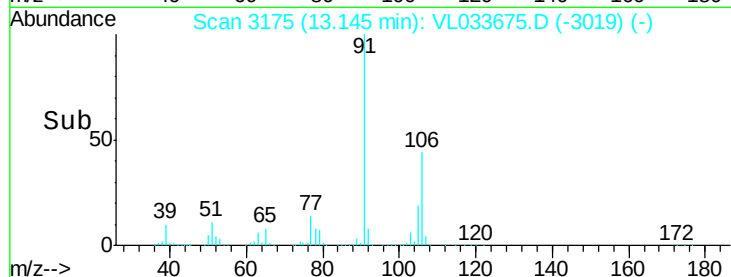
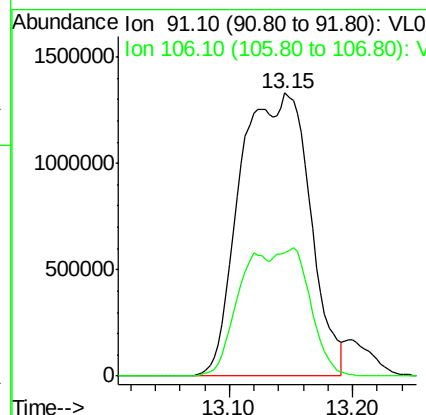
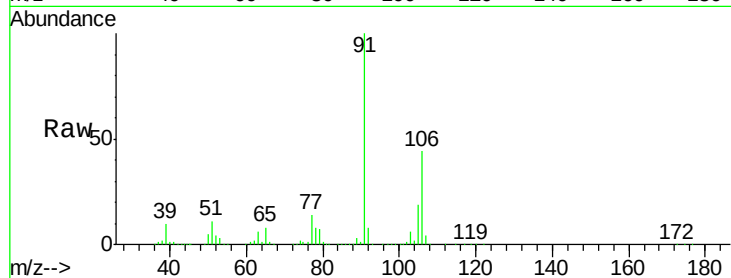
#59
m/p-Xylene
Concen: 20.751 ppbv m
RT: 13.15 min Scan# 3175
Delta R.T. 0.00 min
Lab File: VL033675.D
Acq: 7 May 2019 1:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 5218327
Ion Ratio Lower Upper
91 100
106 44.5 36.2 54.2

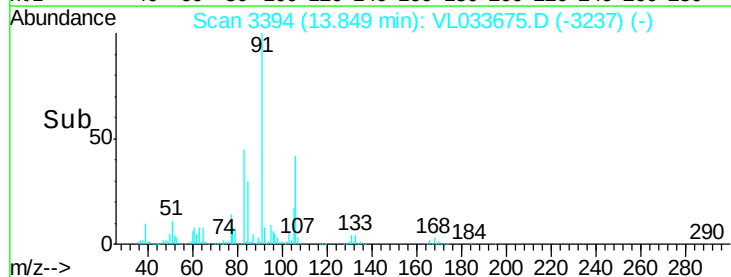
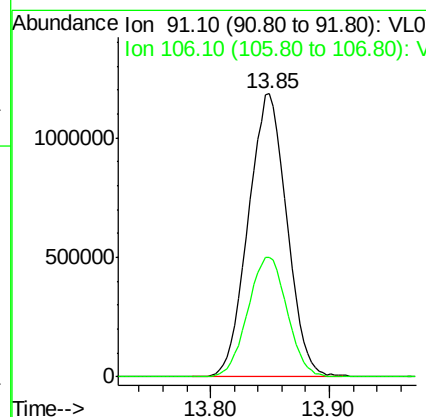
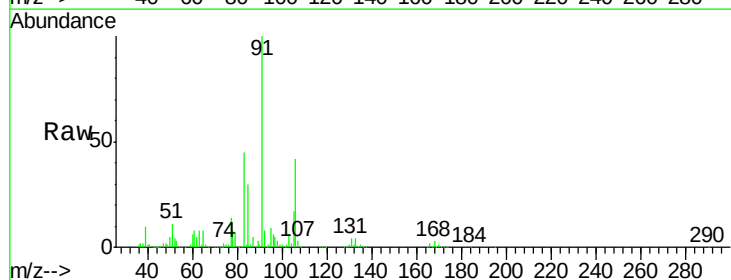
Manual Integrations
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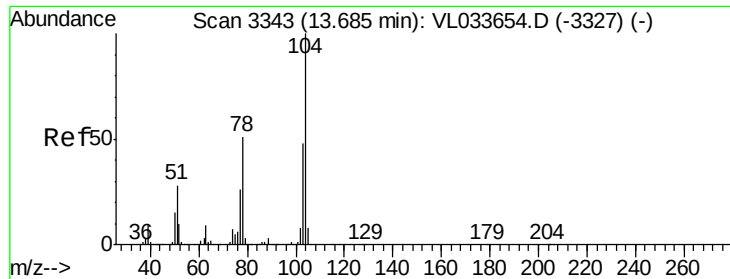
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#60
o-Xylene
Concen: 10.440 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. 0.00 min
Lab File: VL033675.D
Acq: 7 May 2019 1:47

Tgt Ion: 91 Resp: 2657107
Ion Ratio Lower Upper
91 100
106 43.3 21.7 65.1





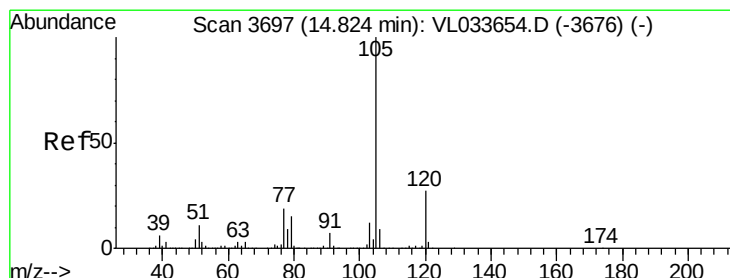
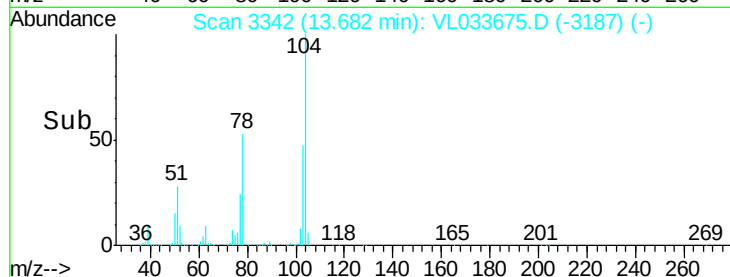
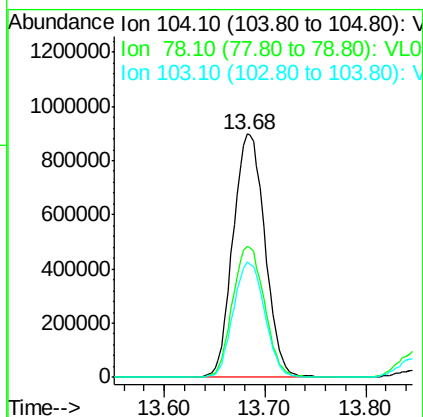
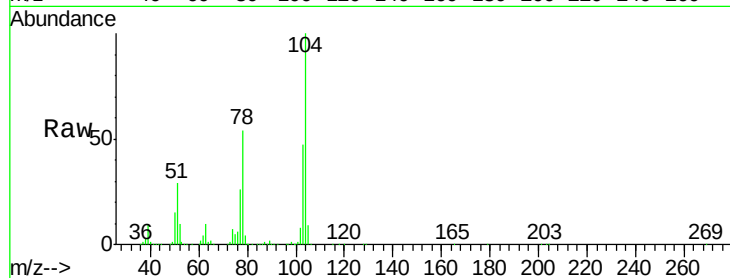
#61
Stvrene
Concen: 11.661 ppbv
RT: 13.68 min Scan# 3342
Delta R.T. -0.00 min
Lab File: VL033675.D
Acq: 7 May 2019 1:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.8	43.0	64.6
103	46.7	38.1	57.1

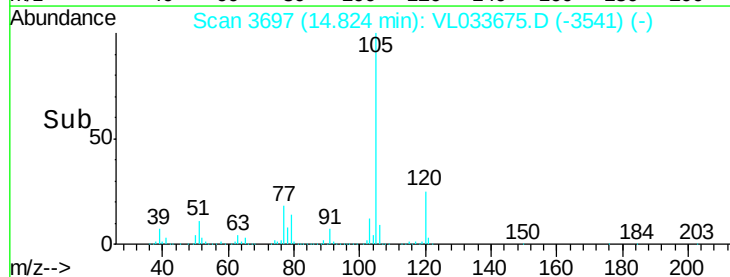
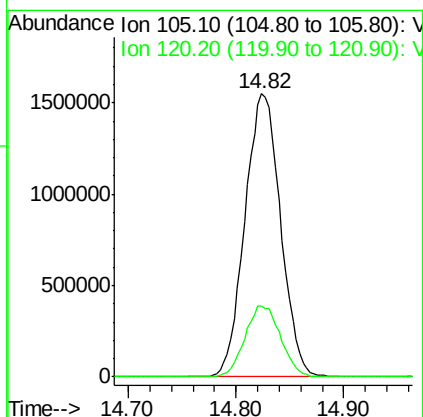
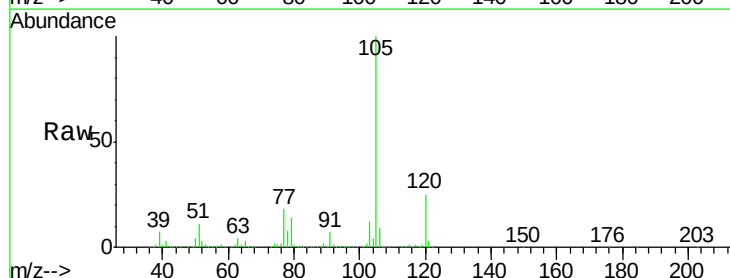
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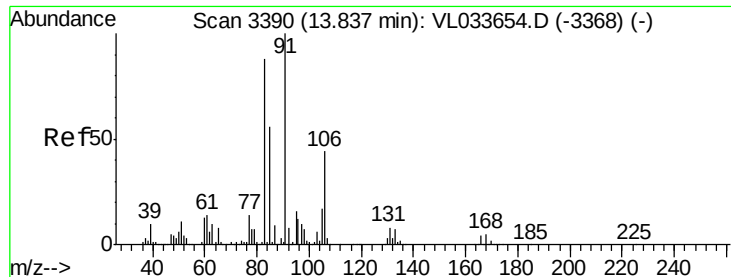
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#62
Isopropylbenzene
Concen: 10.251 ppbv
RT: 14.82 min Scan# 3697
Delta R.T. 0.00 min
Lab File: VL033675.D
Acq: 7 May 2019 1:47

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.2	20.5	30.7





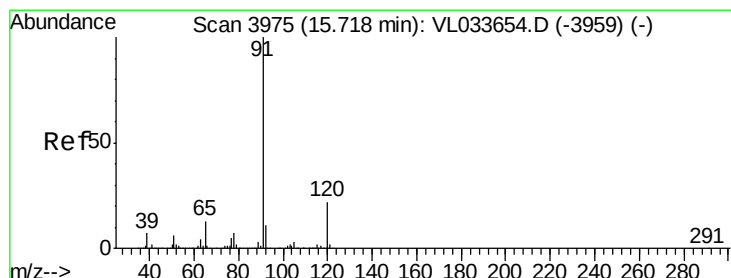
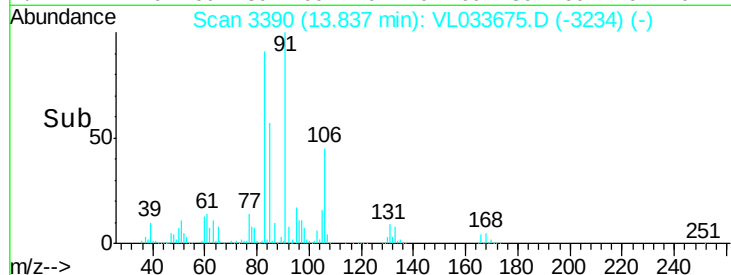
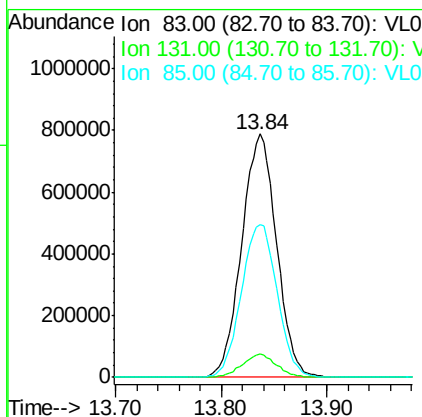
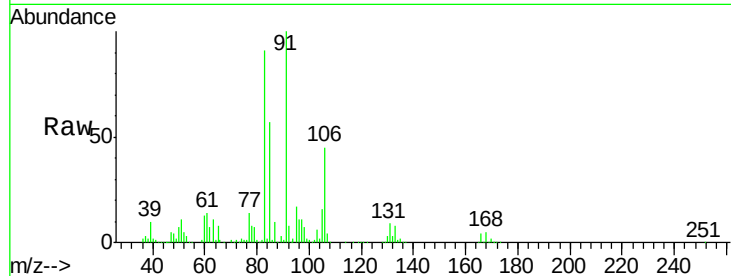
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.780 ppbv
 RT: 13.84 min Scan# 3390
 Delta R.T. 0.00 min
 Lab File: VL033675.D
 Acq: 7 May 2019 1:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	83	Resp	1811558
Ion Ratio	100	Lower	Upper
83	100		
131	9.5	4.8	14.3
85	64.8	32.5	97.4

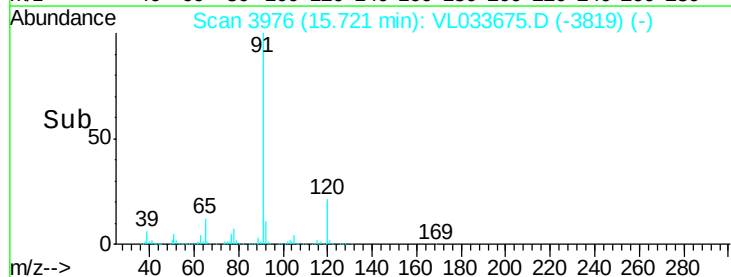
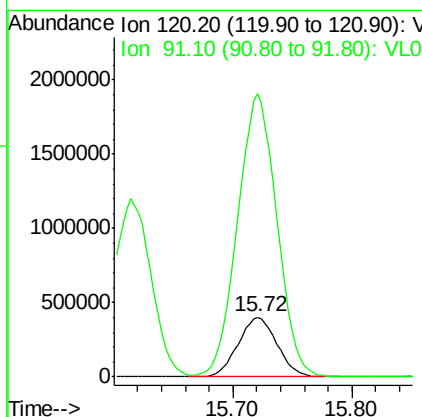
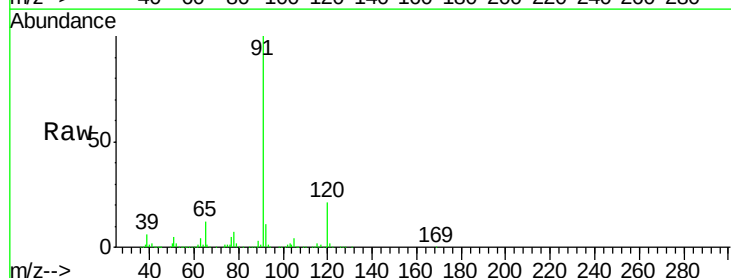
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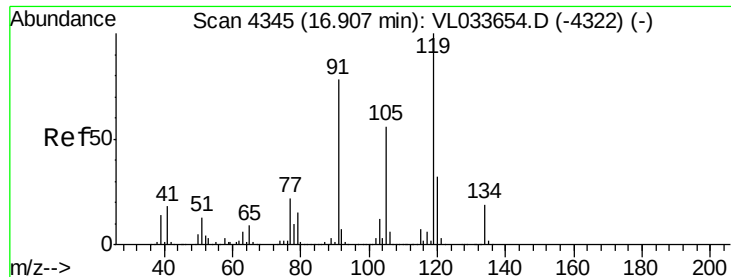
MMDadoda
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#64
 n-propylbenzene
 Concen: 10.141 ppbv
 RT: 15.72 min Scan# 3976
 Delta R.T. 0.00 min
 Lab File: VL033675.D
 Acq: 7 May 2019 1:47

Tgt Ion	120	Resp	910643
Ion Ratio	100	Lower	Upper
120	100		
91	478.9	379.0	568.6





#65

tert-Butylbenzene

Concen: 10.027 ppbv

RT: 16.91 min Scan# 4345

Delta R.T. 0.00 min

Lab File: VL033675.D

Acq: 7 May 2019 1:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 3196349

Ion Ratio Lower Upper

119 100

91 82.8 65.9 98.9

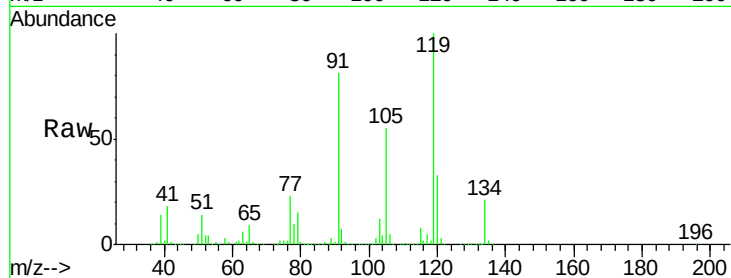
134 19.4 15.5 23.3

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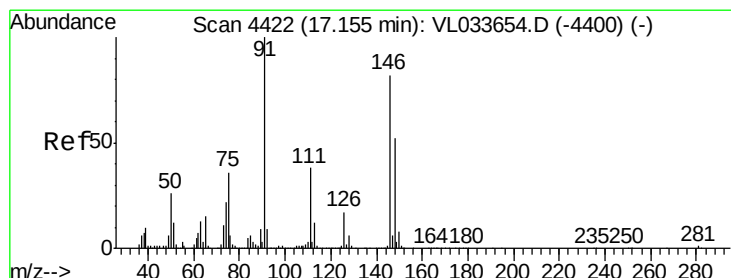
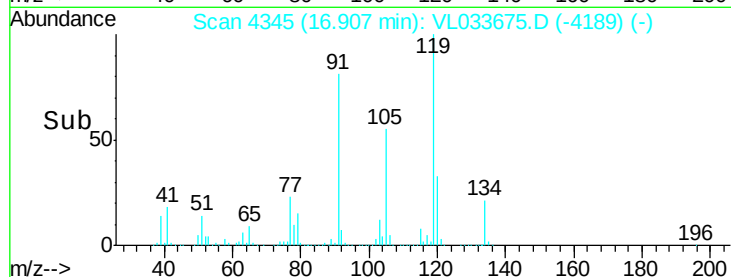
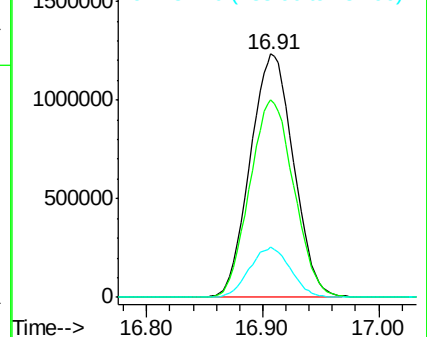
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 11.799 ppbv

RT: 17.16 min Scan# 4423

Delta R.T. 0.00 min

Lab File: VL033675.D

Acq: 7 May 2019 1:47

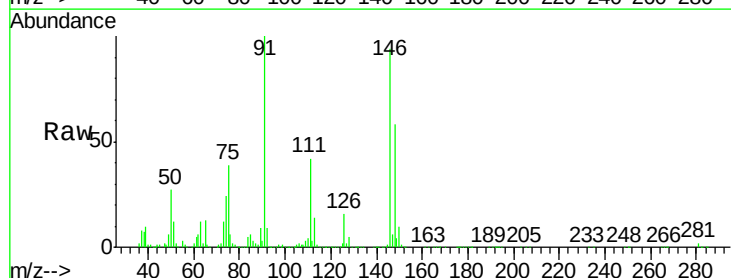
Tgt Ion: 91 Resp: 1711006

Ion Ratio Lower Upper

91 100

126 16.9 13.4 20.2

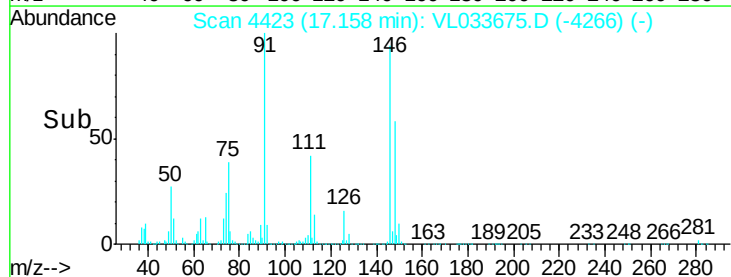
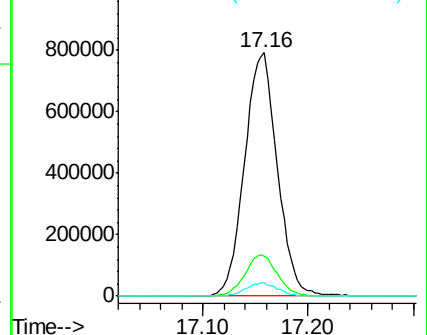
128 5.3 4.4 6.6

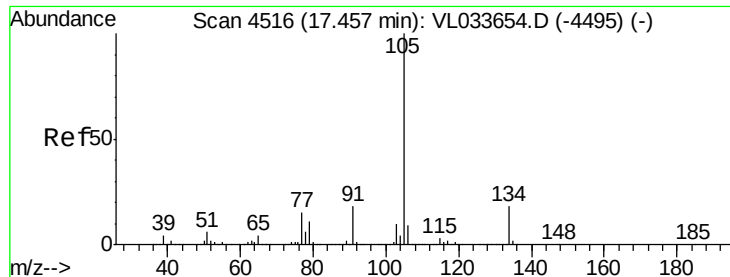


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 10.086 ppbv

RT: 17.46 min Scan# 4516

Delta R.T. 0.00 min

Lab File: VL033675.D

Acq: 7 May 2019 1:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 4485651

Ion Ratio Lower Upper

105 100

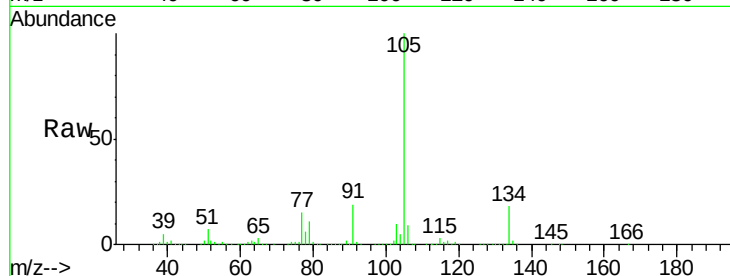
134 18.2 14.6 22.0

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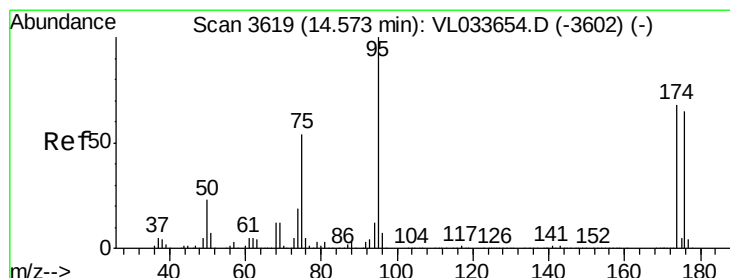
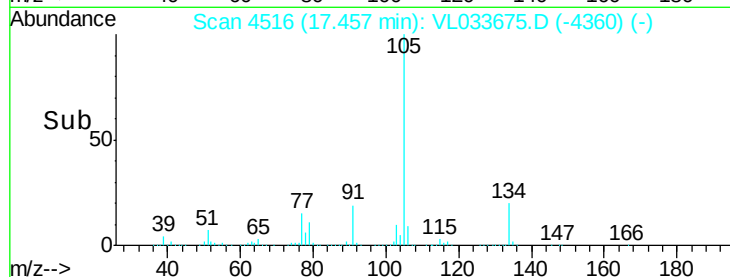
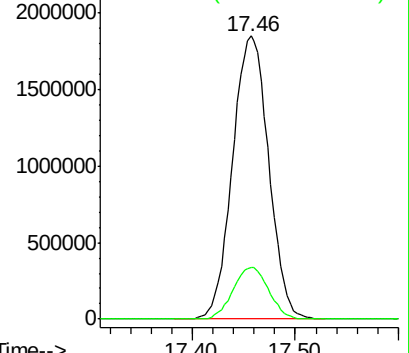
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.142 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. 0.00 min

Lab File: VL033675.D

Acq: 7 May 2019 1:47

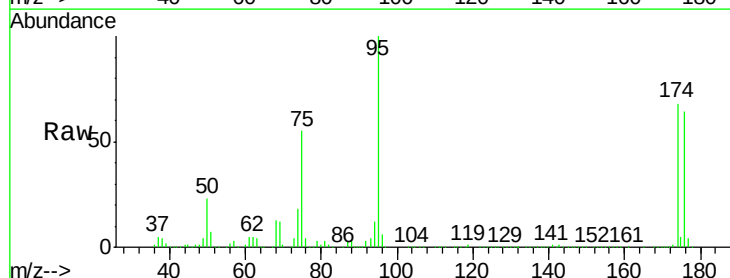
Tgt Ion: 95 Resp: 1820085

Ion Ratio Lower Upper

95 100

174 67.5 54.0 81.0

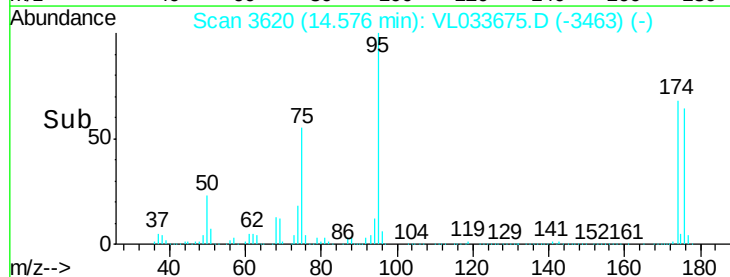
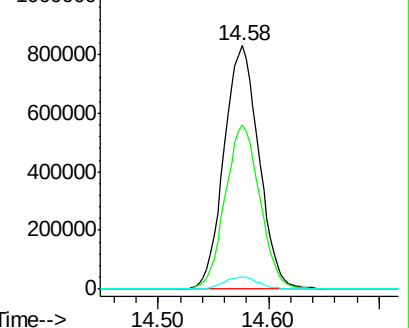
175 4.9 3.8 5.8

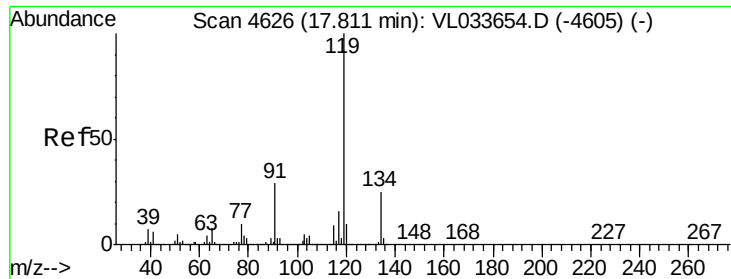


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





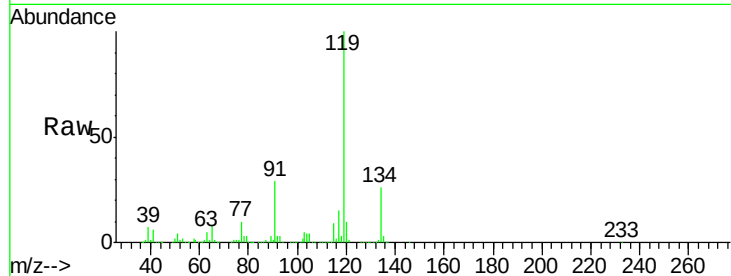
#69
 p-Isopropyltoluene
 Concen: 10.283 ppbv
 RT: 17.81 min Scan# 4627
 Delta R.T. 0.00 min
 Lab File: VL033675.D
 Acq: 7 May 2019 1:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

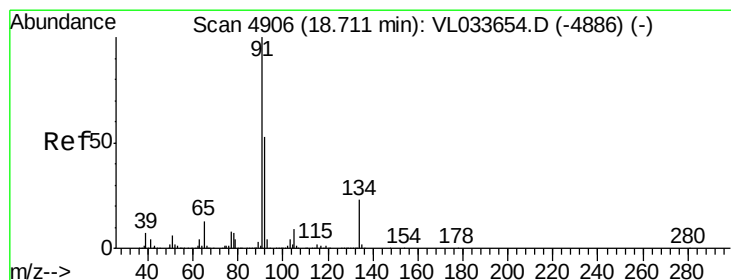
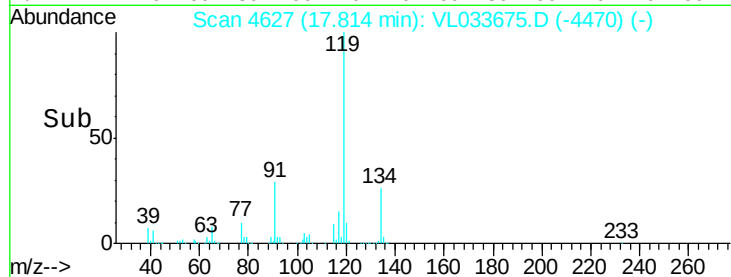
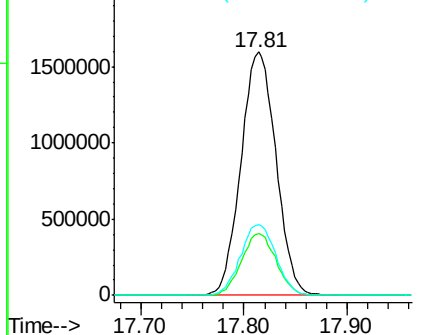
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.2	30.2
91	29.3	23.4	35.2

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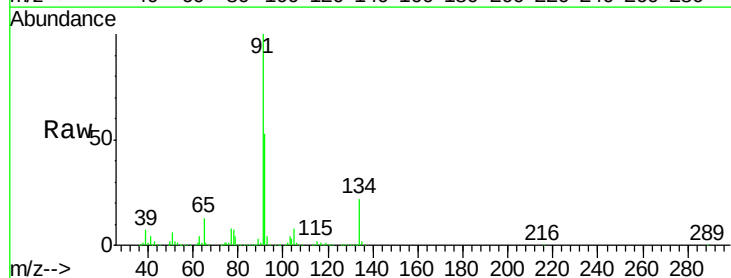


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

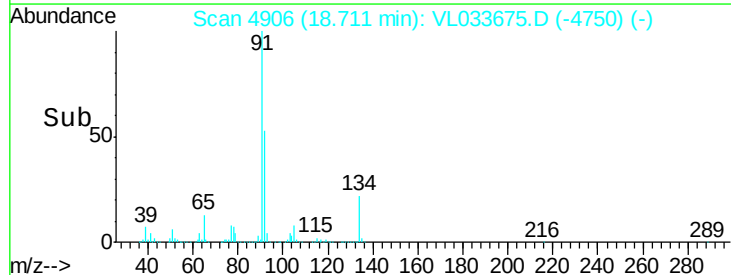
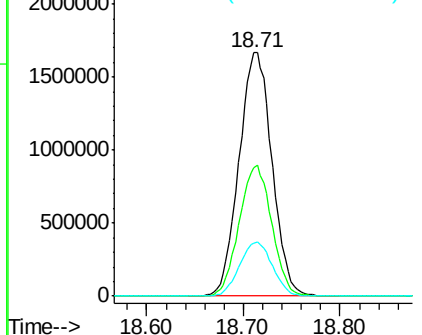


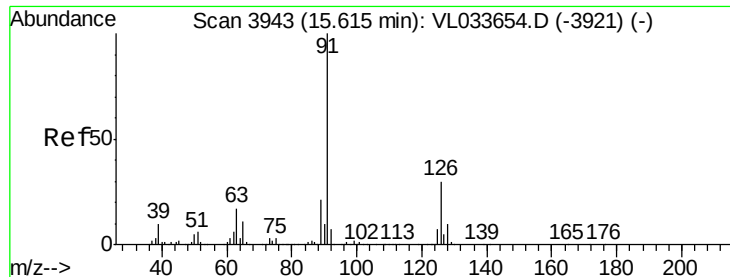
#70
 n-Butylbenzene
 Concen: 10.167 ppbv
 RT: 18.71 min Scan# 4906
 Delta R.T. 0.00 min
 Lab File: VL033675.D
 Acq: 7 May 2019 1:47

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.1	42.5	63.7
134	22.2	18.0	27.0



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 10.509 ppbv

RT: 15.61 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VL033675.D

Acq: 7 May 2019 1:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2698129

Ion Ratio Lower Upper

91 100

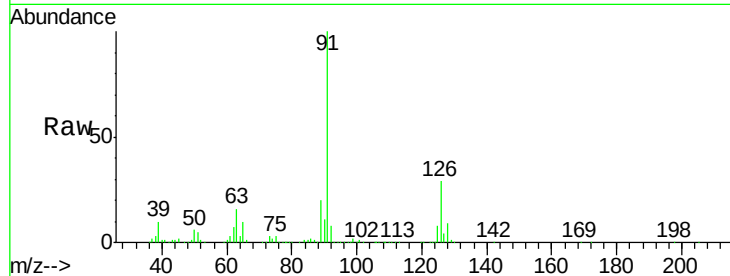
126 29.5 12.0 47.8

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

2000000

1500000

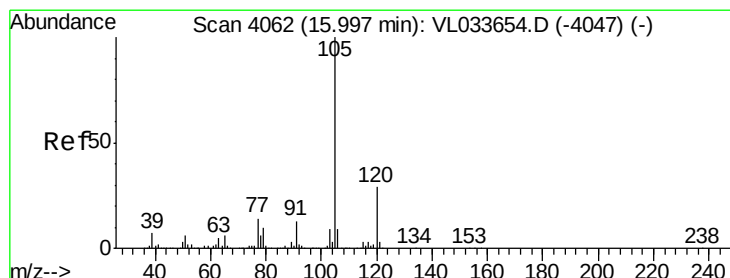
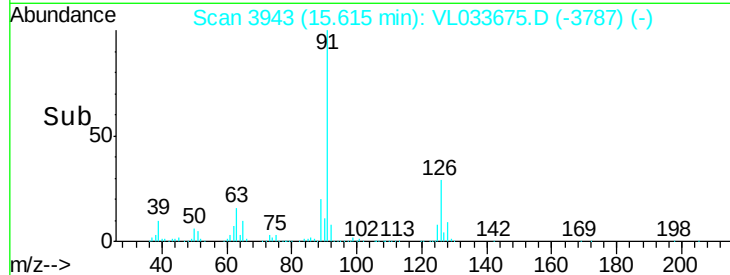
1000000

500000

0

15.55 15.60 15.65 15.70

Time-->



#72

4-Ethyltoluene

Concen: 10.444 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. 0.00 min

Lab File: VL033675.D

Acq: 7 May 2019 1:47

Tgt Ion:105 Resp: 3124351

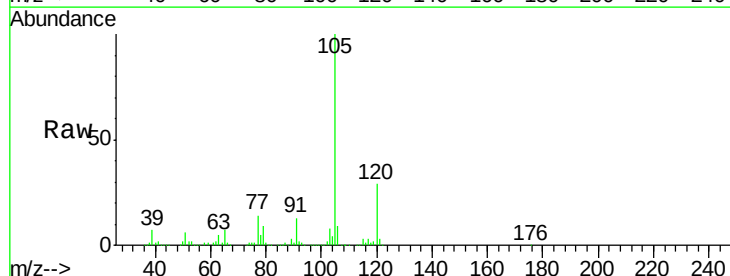
Ion Ratio Lower Upper

105 100

120 29.1 23.0 34.6

91 13.7 10.5 15.7

77 14.0 11.4 17.2



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

2000000

1500000

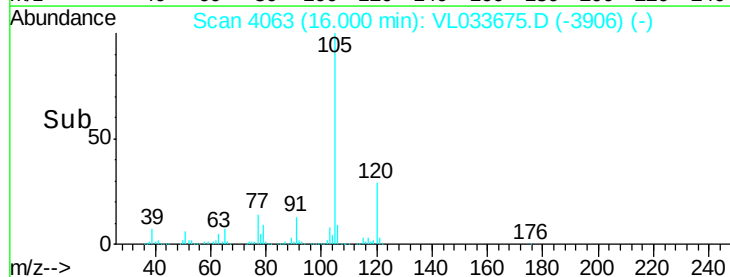
1000000

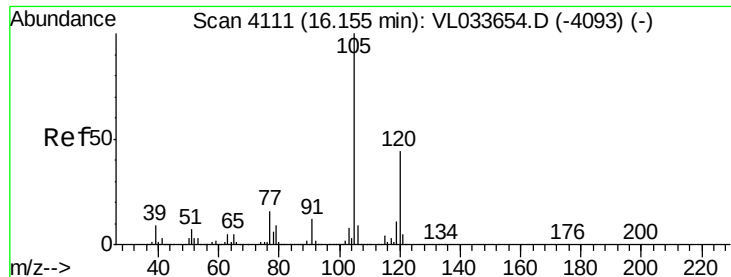
500000

0

15.90 16.00

Time-->





#73

1,3,5-Trimethylbenzene

Concen: 10.215 ppbv

RT: 16.16 min Scan# 4112

Delta R.T. 0.00 min

Lab File: VL033675.D

Acq: 7 May 2019 1:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 2954628

Ion Ratio Lower Upper

105 100

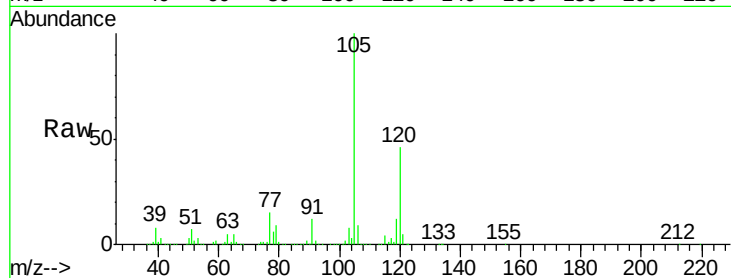
120 46.3 35.5 53.3

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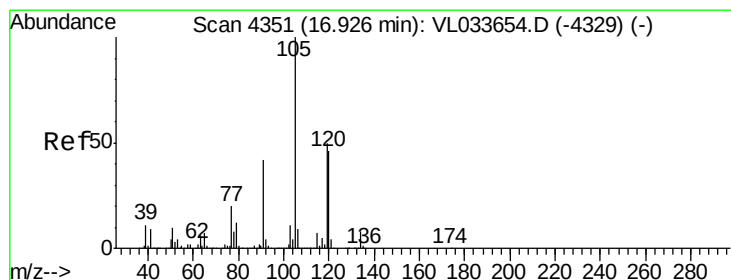
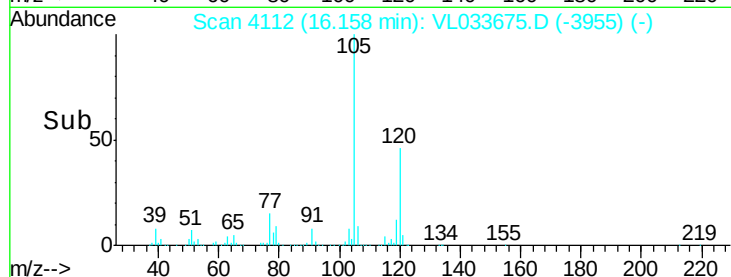
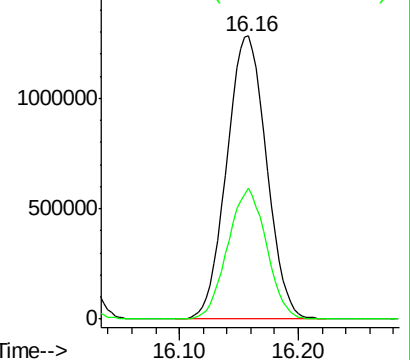
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 9.659 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. 0.00 min

Lab File: VL033675.D

Acq: 7 May 2019 1:47

Tgt Ion:105 Resp: 3105651

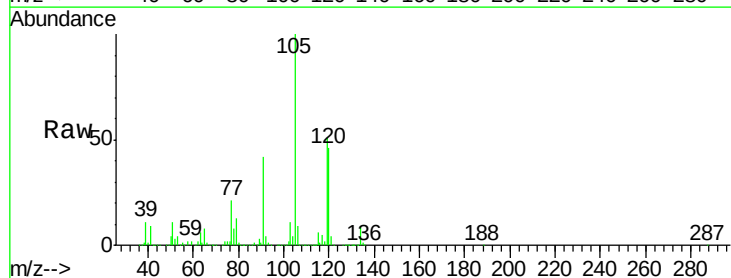
Ion Ratio Lower Upper

105 100

120 46.0 36.5 54.7

91 41.9 33.7 50.5

77 20.4 16.3 24.5

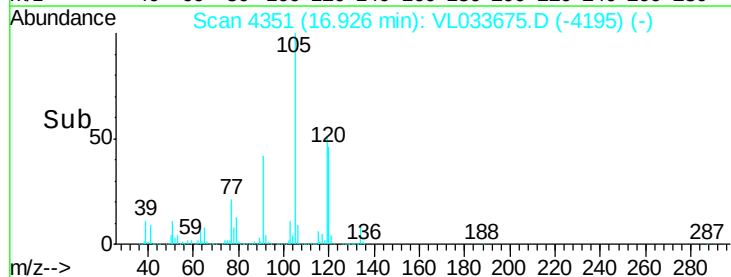
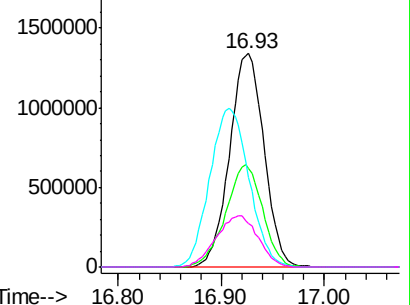


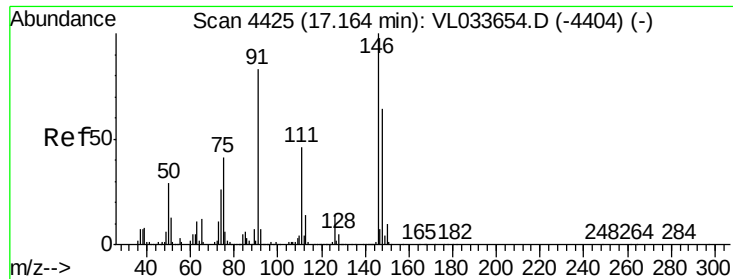
Abundance Ion 105.10 (104.80 to 105.80): V

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





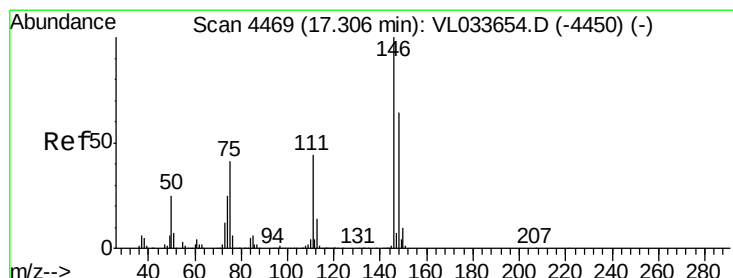
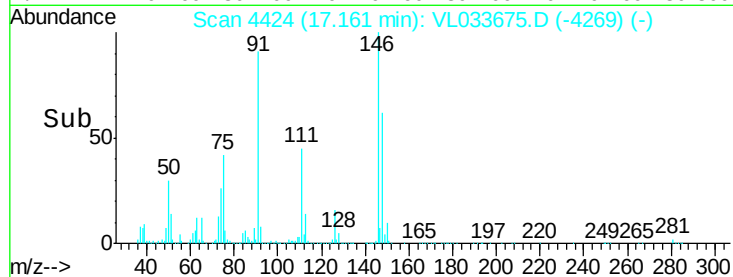
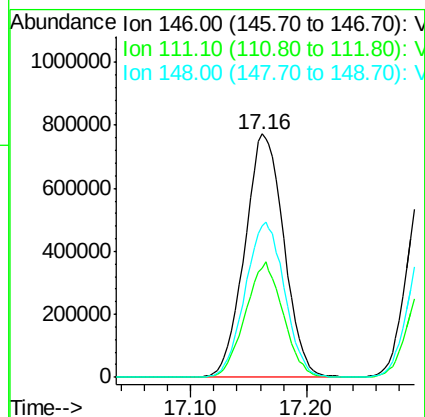
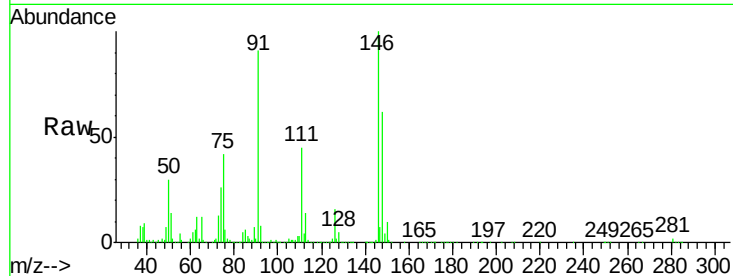
#75
 1,3-Dichlorobenzene
 Concen: 9.334 ppbv
 RT: 17.16 min Scan# 4424
 Delta R.T. -0.00 min
 Lab File: VL033675.D
 Acq: 7 May 2019 1:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 1812558
 Ion Ratio Lower Upper
 146 100
 111 45.7 22.6 67.7
 148 64.1 31.8 95.4

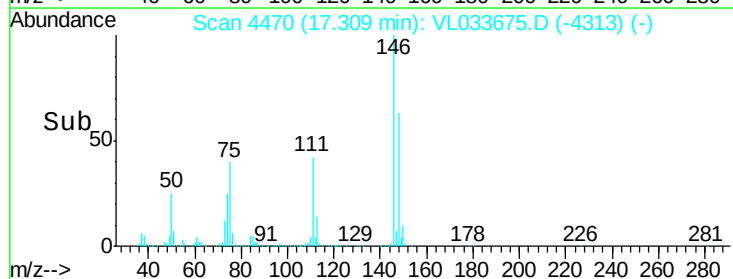
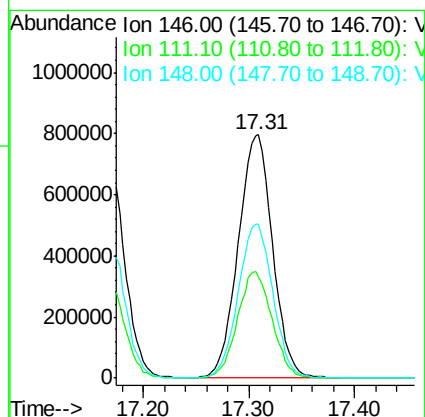
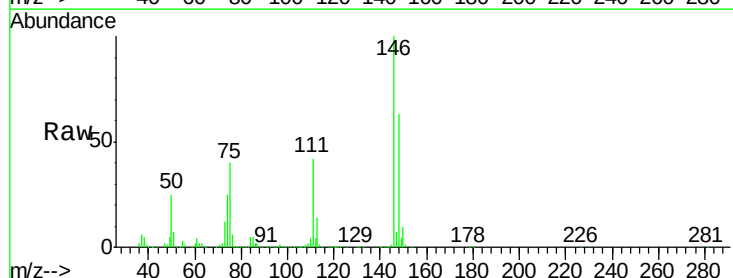
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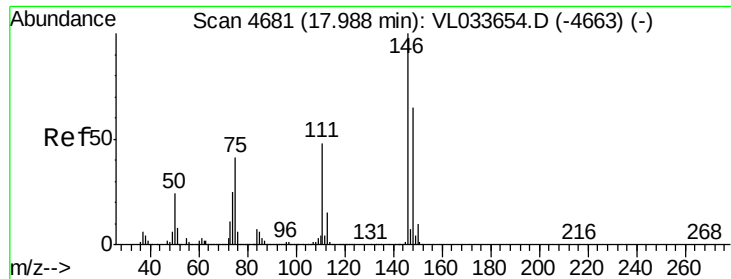
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#76
 1,4-Dichlorobenzene
 Concen: 9.793 ppbv
 RT: 17.31 min Scan# 4470
 Delta R.T. 0.00 min
 Lab File: VL033675.D
 Acq: 7 May 2019 1:47

Tgt Ion:146 Resp: 1804789
 Ion Ratio Lower Upper
 146 100
 111 44.0 22.0 66.0
 148 64.0 32.1 96.5





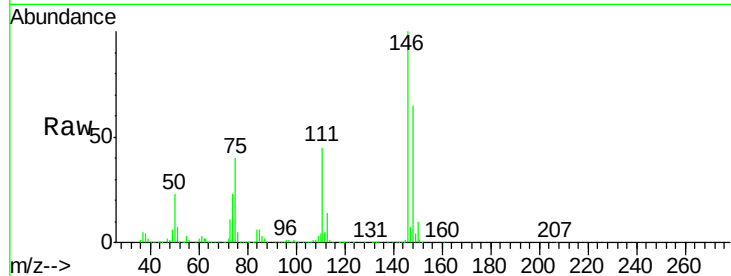
#77
 1,2-Dichlorobenzene
 Concen: 9.682 ppbv
 RT: 17.99 min Scan# 4681
 Delta R.T. 0.00 min
 Lab File: VL033675.D
 Acq: 7 May 2019 1:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.8	23.4	70.0
148	63.5	31.9	95.9

Manual Integrations
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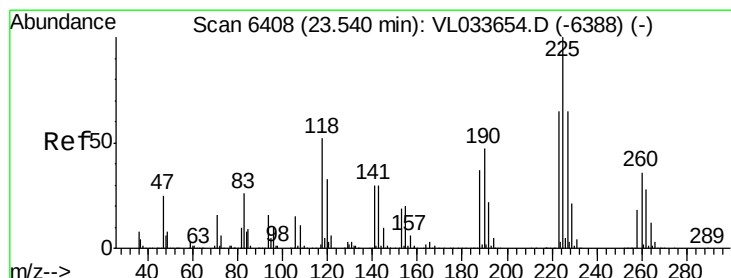
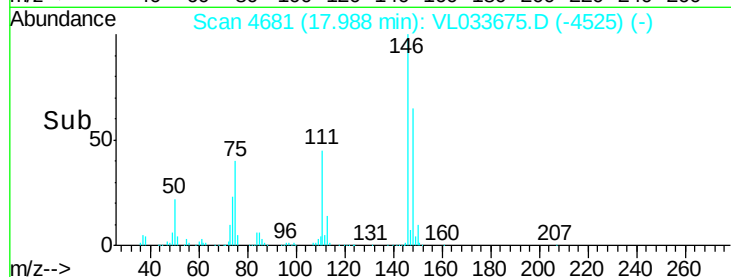
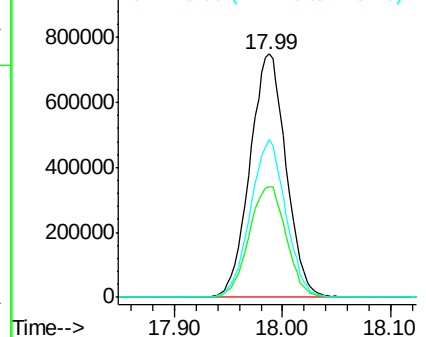


Abundance

Ion 146.00 (145.70 to 146.70): V

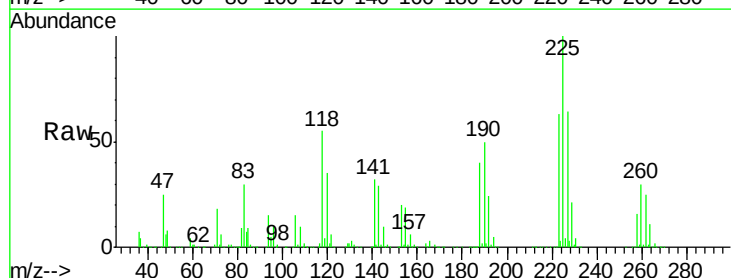
Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78
 Hexachloro-1,3-Butadiene
 Concen: 11.008 ppbv
 RT: 23.54 min Scan# 6409
 Delta R.T. 0.00 min
 Lab File: VL033675.D
 Acq: 7 May 2019 1:47

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.7	50.7	76.1
227	64.1	51.4	77.2

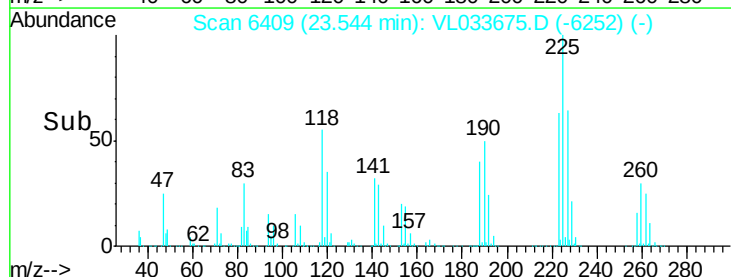
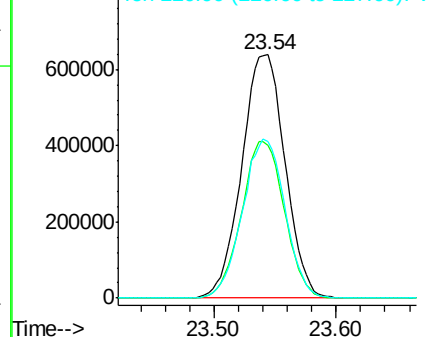


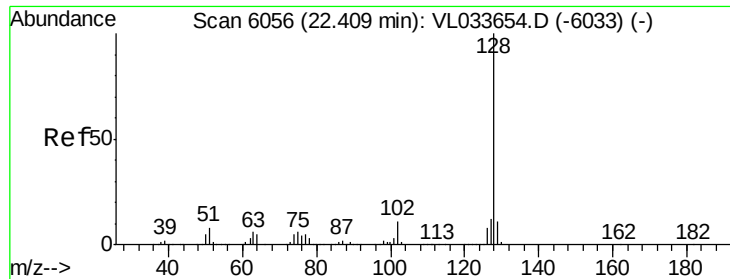
Abundance

Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





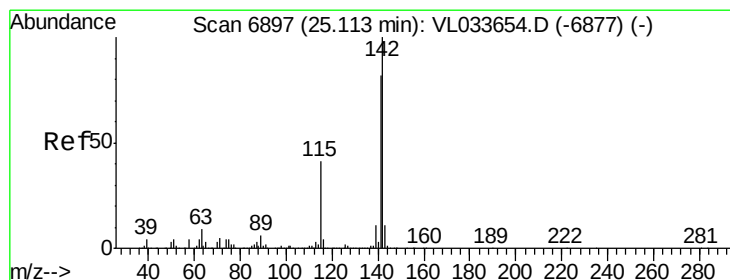
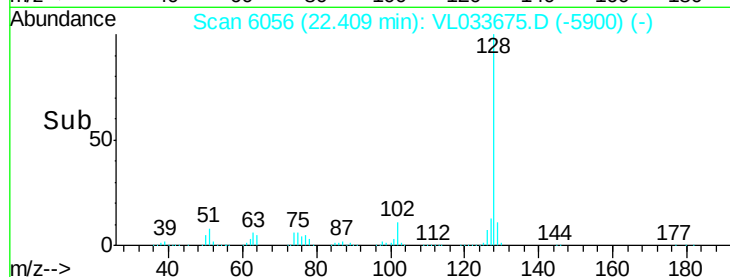
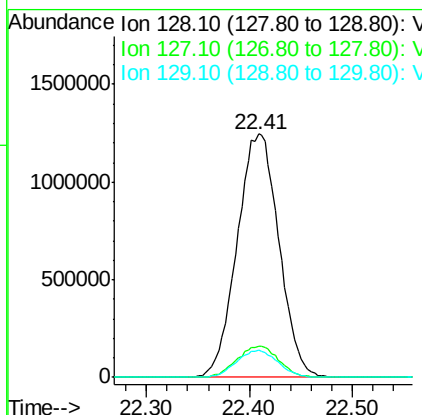
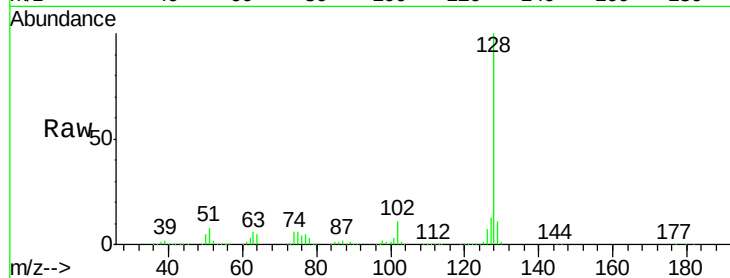
#79
Naphthalene
Concen: 11.948 ppbv
RT: 22.41 min Scan# 6056
Delta R.T. 0.00 min
Lab File: VL033675.D
Acq: 7 May 2019 1:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	9.8	14.8
129	11.1	8.8	13.2

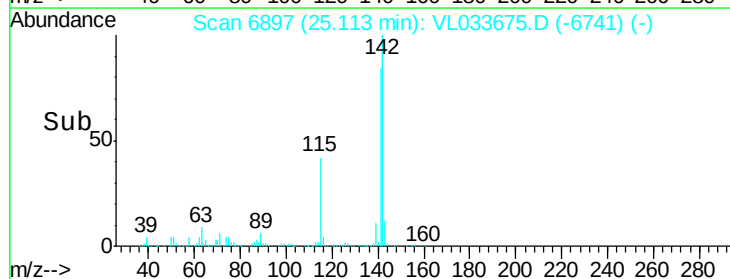
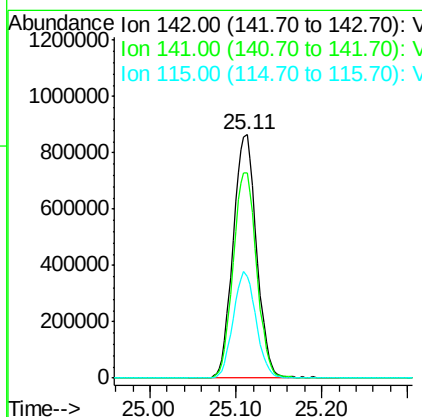
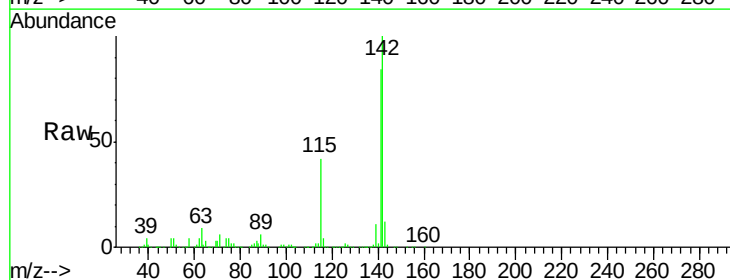
Manual Integrations
APPROVED

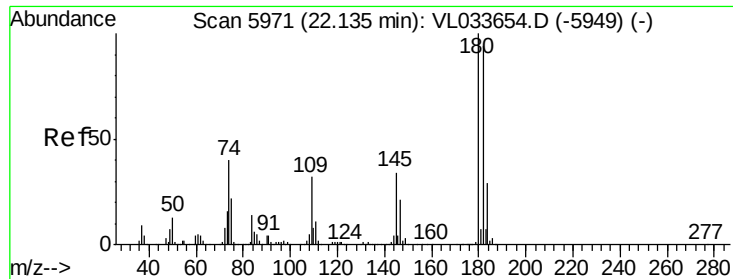
MMDadoda
5/8/2019 12:07:16 PM



#80
Naphthalene, 2-methyl-
Concen: 14.733 ppbv
RT: 25.11 min Scan# 6897
Delta R.T. 0.00 min
Lab File: VL033675.D
Acq: 7 May 2019 1:47

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.9	67.9	101.9
115	43.0	34.2	51.4





#81
 1,2,4-Trichlorobenzene
 Concen: 10.623 ppbv
 RT: 22.14 min Scan# 5971
 Delta R.T. 0.00 min
 Lab File: VL033675.D
 Acq: 7 May 2019 1:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
180	100			
182	95.7	77.4	116.0	
184	30.0	24.6	36.8	

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 12:07:16 PM

