

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041019\
 Data File : VL033563.D
 Acq On : 10 Apr 2019 11:06
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 4/11/2019 1:00:55 PM

Quant Time: Apr 11 03:50:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	956728	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2493541	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2580004m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1916350	9.47	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1447070	10.371	ppbv	100
3) Chlorodifluoromethane	3.01	51	888976	8.071	ppbv	98
4) Chloromethane	3.17	50	493868	8.473	ppbv	95
5) Vinyl Chloride	3.29	62	486154	8.489	ppbv	99
6) Bromomethane	3.51	94	317777	8.635	ppbv	99
7) Chloroethane	3.60	64	181731	8.527	ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	1216282	8.180	ppbv	97
9) Propene	3.04	41	416741	9.009	ppbv	98
10) Heptane	8.25	43	1065229	8.615	ppbv	100
11) Trichlorofluoromethane	4.00	101	1333948	7.757	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	931941	8.068	ppbv	97
13) Ethanol	3.64	45	110184	9.205	ppbv	66
14) Bromoethene	3.79	108	406551	8.825	ppbv	99
15) Acetone	3.90	43	867030	7.537	ppbv	98
16) 1,3-Butadiene	3.36	39	390030	8.548	ppbv	86
17) tert-Butyl alcohol	4.35	59	175379	8.292	ppbv	100
18) 1,1-Dichloroethene	4.35	96	430860	8.684	ppbv	94
19) Isopropyl Alcohol	4.02	45	640214	8.799	ppbv	99
20) Methylene Chloride	4.41	84	355961	7.290	ppbv	96
21) Allyl Chloride	4.48	41	633380	8.710	ppbv	98
22) trans-1,2-Dichloroethene	4.96	96	436511	8.433	ppbv	96
23) Vinyl Acetate	5.16	43	1496827	9.142	ppbv	98
24) 1,1-Dichloroethane	5.09	63	1040688	8.367	ppbv	99
25) Ethyl Acetate	5.77	43	1758405	8.239	ppbv	99
26) Hexane	5.78	57	803733	8.469	ppbv	95
27) Carbon Disulfide	4.62	76	1034128	9.164	ppbv	98
28) Methyl tert-Butyl Ether	5.11	73	1287401	9.419	ppbv	100
29) Chloroform	5.85	83	1343386	8.258	ppbv	100
30) Cyclohexane	7.25	84	719021	9.577	ppbv	96
31) cis-1,2-Dichloroethene	5.64	61	835856	8.859	ppbv	91
32) 1,1,1-Trichloroethane	6.62	97	1349304	8.710	ppbv	98
34) 2-Butanone	5.33	43	1175020	7.843	ppbv	98
35) Carbon Tetrachloride	7.14	117	1397209	7.911	ppbv	100
36) Benzene	7.00	78	1755271	8.389	ppbv	96
37) 1,2-Dichloroethane	6.41	62	985936	7.030	ppbv	98
38) Trichloroethene	7.96	130	705353	8.958	ppbv	97
39) 1,2-Dichloropropane	7.74	63	654579	7.987	ppbv	96
40) 1,4-Dioxane	7.95	88	258116	8.830	ppbv #	1
41) Tetrahydrofuran	6.15	42	679408	8.245	ppbv	96
42) Bromodichloromethane	7.92	83	1491375	7.808	ppbv	100
43) Methyl Methacrylate	8.14	69	719670	8.471	ppbv	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2853151	7.804	ppbv	98
45) t-1,3-Dichloropropene	9.42	75	978378	9.380	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	1088267	8.934	ppbv	94
47) 1,1,2-Trichloroethane	9.62	97	724365	7.783	ppbv	99
48) Dibromochloromethane	10.45	129	1301072	8.288	ppbv	99
49) Bromoform	13.20	173	1194929	7.968	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	1678707	7.652	ppbv	97
51) 2-Hexanone	10.27	43	1369297	8.368	ppbv #	98
52) Tetrachloroethene	11.37	164	681558	8.634	ppbv	99
53) Toluene	9.95	91	2109531	8.677	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1179853	8.105	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.28	131	920583	7.785	ppbv #	54
57) Chlorobenzene	12.30	112	1563203	7.803	ppbv	94
58) Ethyl Benzene	12.87	91	2877345	8.351	ppbv	99
59) m/p-Xylene	13.15	91	4798406m	15.592	ppbv	
60) o-Xylene	13.85	91	2341359	7.868	ppbv	99
61) Styrene	13.69	104	1822119	8.921	ppbv	98
62) Isopropylbenzene	14.83	105	3364660	7.984	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	1618499	7.386	ppbv	99
64) n-propylbenzene	15.73	120	878166	8.212	ppbv	95
65) tert-Butylbenzene	16.91	119	3025623	8.148	ppbv	97
66) Benzyl Chloride	17.16	91	1750513	10.137	ppbv	98
67) sec-Butylbenzene	17.46	105	4217697	7.986	ppbv	100
69) p-Isopropyltoluene	17.82	119	3514148	8.173	ppbv	98
70) n-Butylbenzene	18.72	91	3662597	8.039	ppbv	99
71) 2-Chlorotoluene	15.62	91	2580990	8.055	ppbv	98
72) 4-Ethyltoluene	16.00	105	2831271	8.464	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	2690958	8.406	ppbv	97
74) 1,2,4-Trimethylbenzene	16.93	105	2750976	8.018	ppbv	96
75) 1,3-Dichlorobenzene	17.17	146	1647143	7.767	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1659510	8.032	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1608658	7.995	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1240675	9.315	ppbv	99
79) Naphthalene	22.42	128	2851965	9.710	ppbv	98
80) Naphthalene, 2-methyl-	25.12	142	1208944	12.265	ppbv	97
81) 1,2,4-Trichlorobenzene	22.14	180	1454895	8.930	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

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MSVOA_L

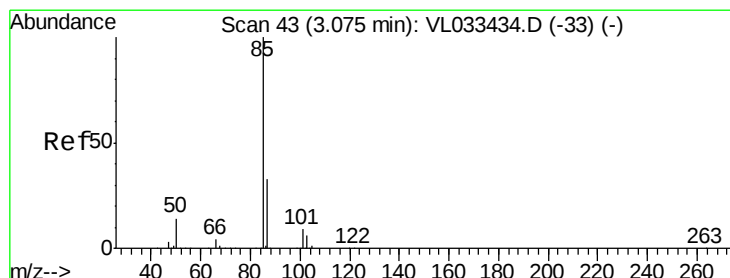
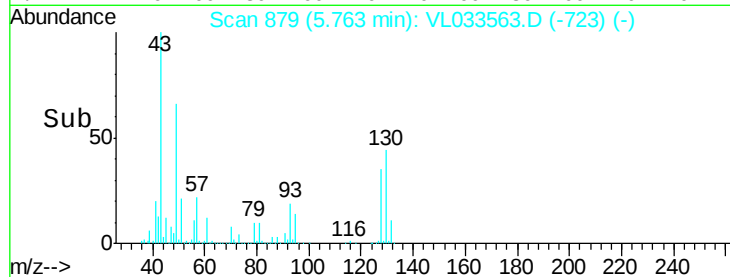
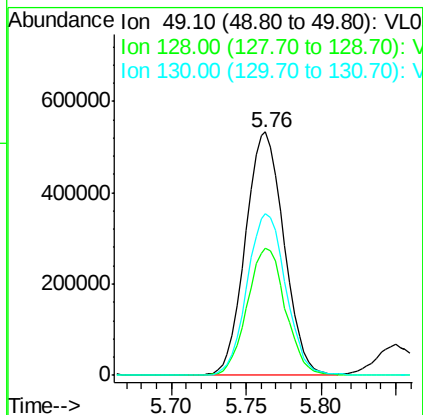
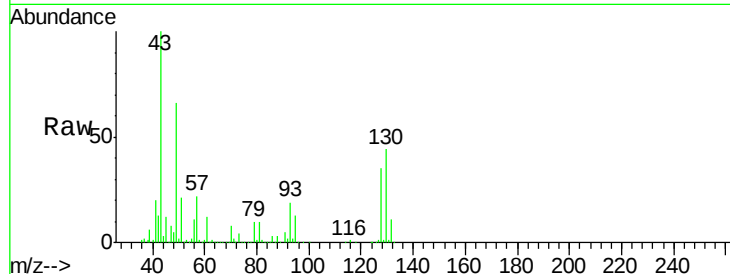
ClientSampleId :

VSTDCCC010

Tot Ion	49	Resp	956728
Ion	Ratio	Lower	Upper
49	100		
128	52.1	24.0	72.0
130	67.1	31.2	93.6

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 10.371 ppbv

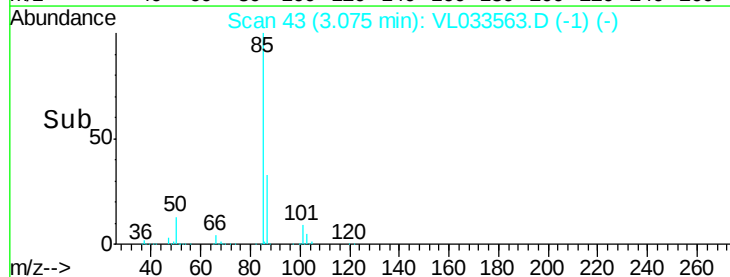
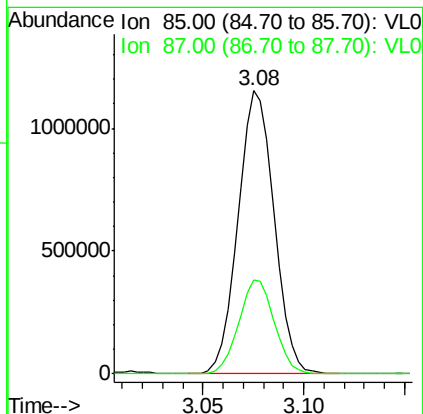
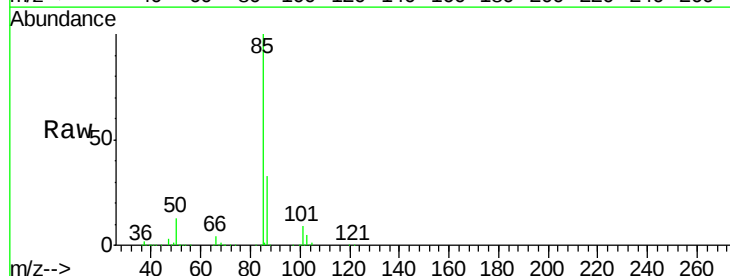
RT: 3.08 min Scan# 43

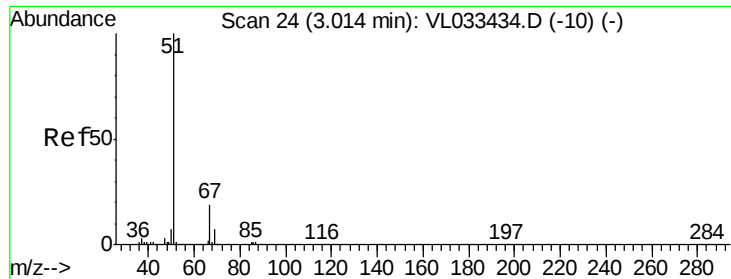
Delta R.T. 0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Tgt Ion	85	Resp	1447070
Ion	Ratio	Lower	Upper
85	100		
87	33.2	26.7	40.1





#3

Chlorodifluoromethane

Concen: 8.071 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 51 Resp: 888976

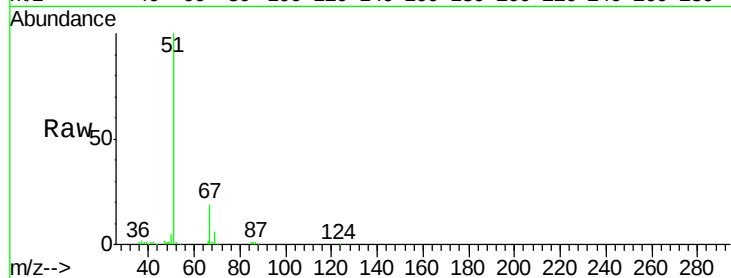
Ion Ratio Lower Upper

51 100

67 18.5 15.7 23.5

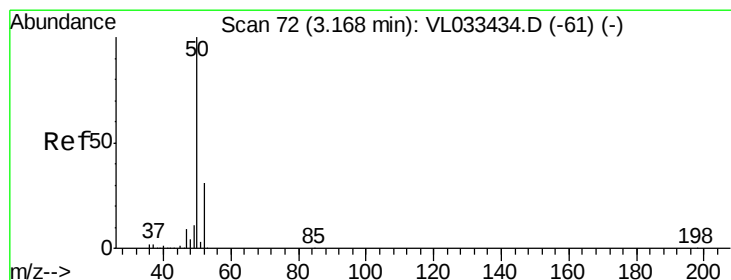
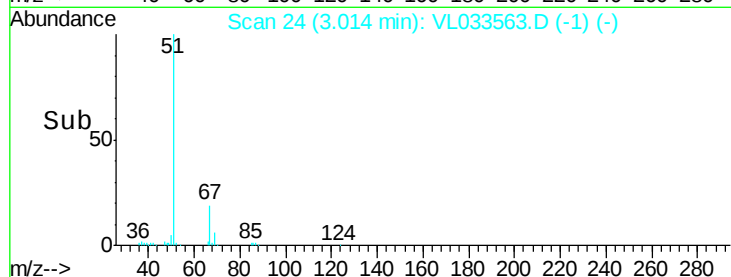
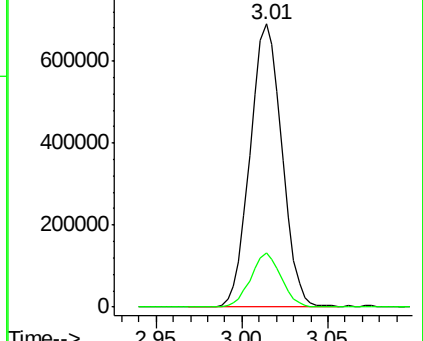
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 8.473 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033563.D

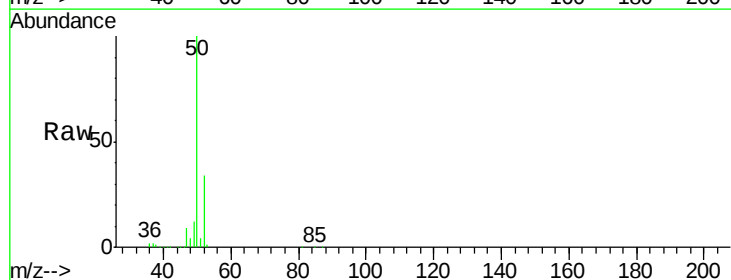
Acq: 10 Apr 2019 11:06

Tgt Ion: 50 Resp: 493868

Ion Ratio Lower Upper

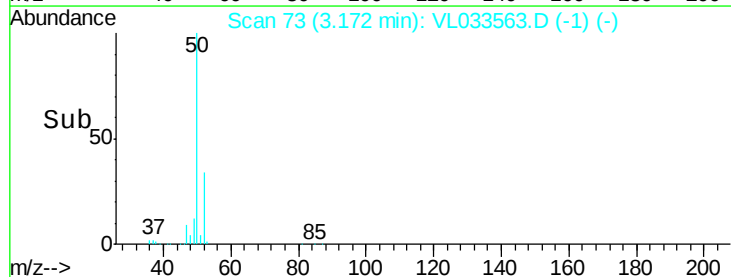
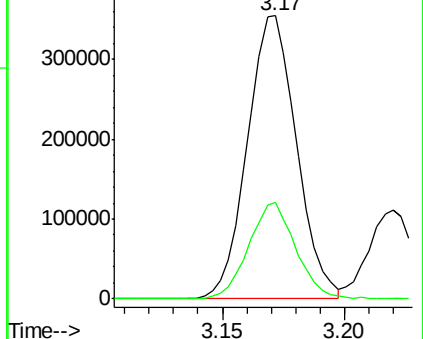
50 100

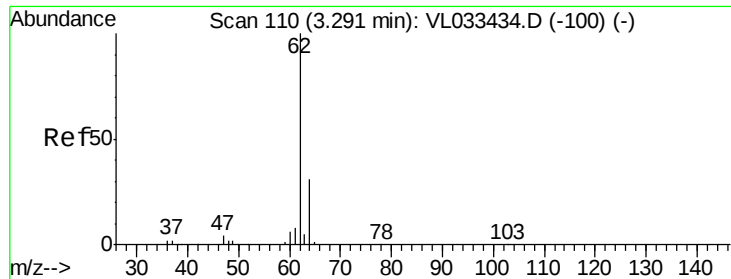
52 34.2 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.489 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 486154

Ion Ratio Lower Upper

62 100

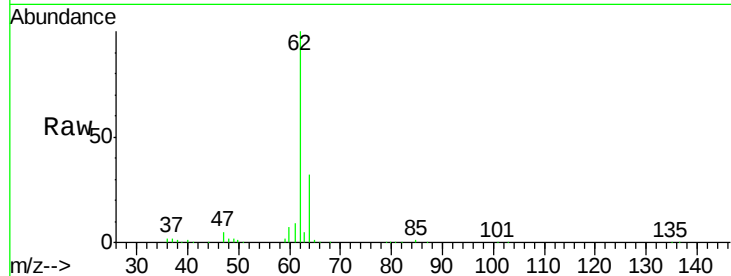
64 31.7 24.9 37.3

Manual Integrations

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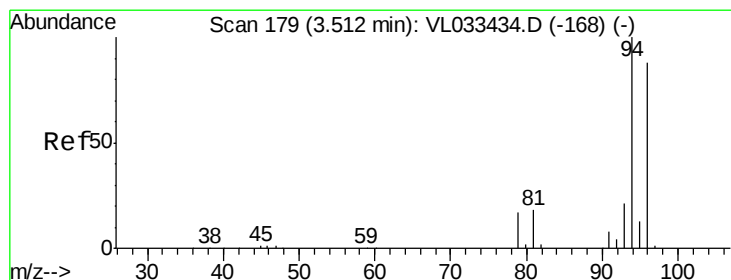
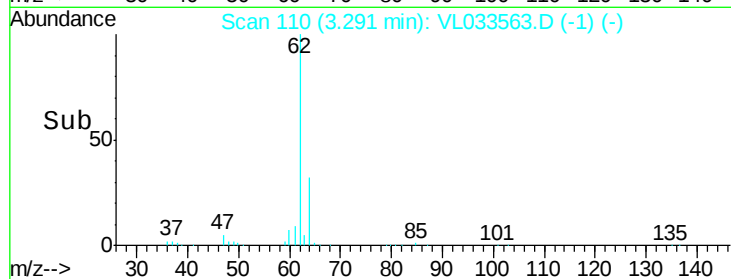
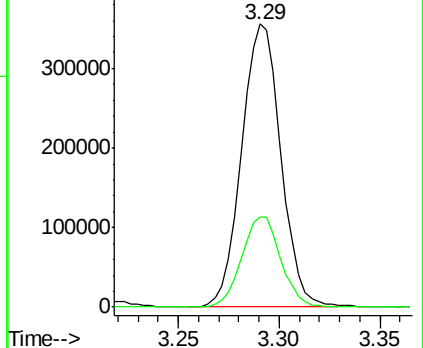
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 8.635 ppbv

RT: 3.51 min Scan# 179

Delta R.T. 0.00 min

Lab File: VL033563.D

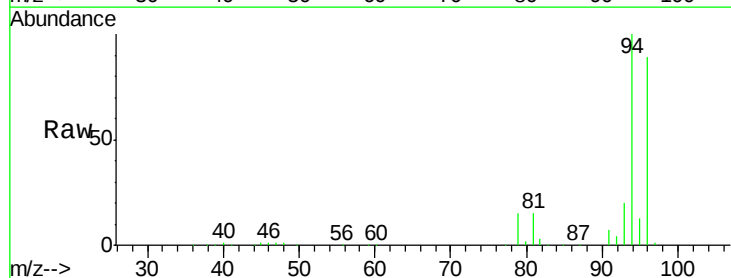
Acq: 10 Apr 2019 11:06

Tgt Ion: 94 Resp: 317777

Ion Ratio Lower Upper

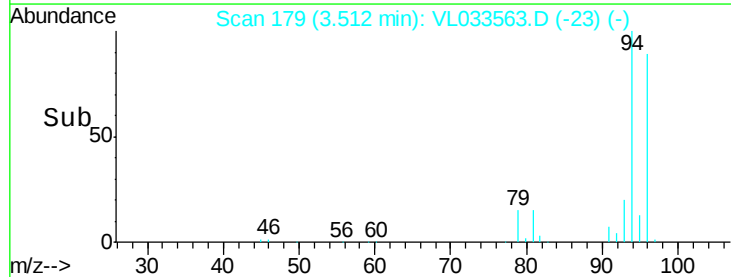
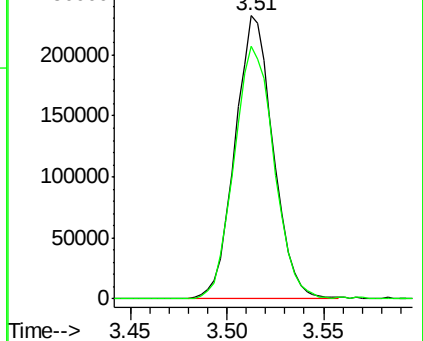
94 100

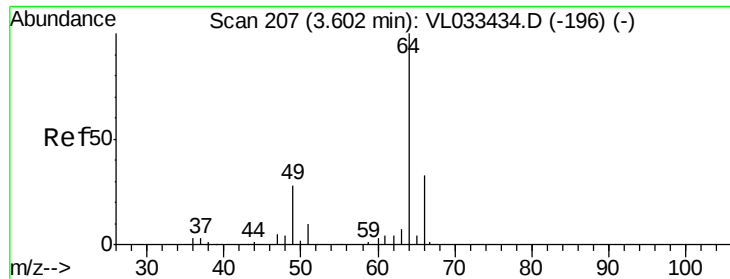
96 89.0 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 8.527 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Instrument :

MSVOA_L

ClientSampled :

VSTDCCC010

Tot Ion: 64 Resp: 181731

Ion Ratio Lower Upper

64 100

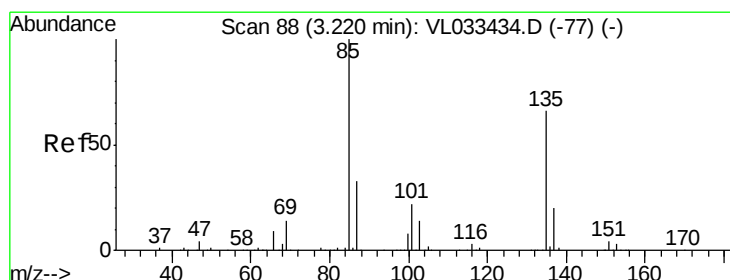
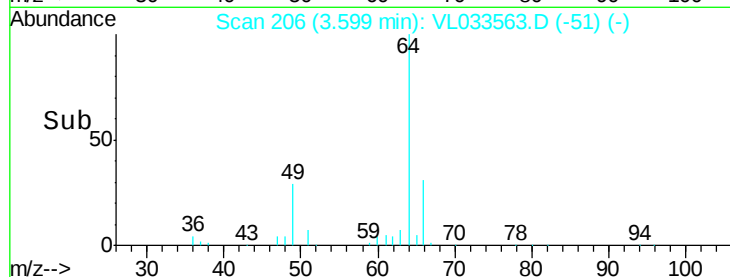
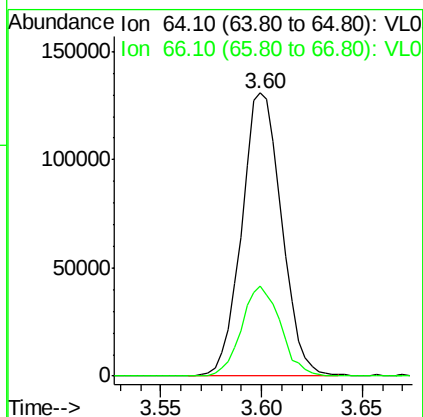
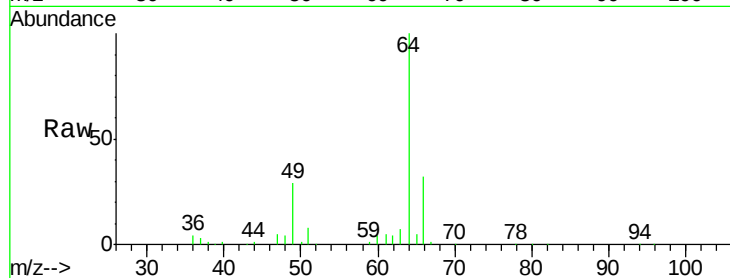
66 31.9 26.7 40.1

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#8

Dichlorotetrafluoroethane

Concen: 8.180 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033563.D

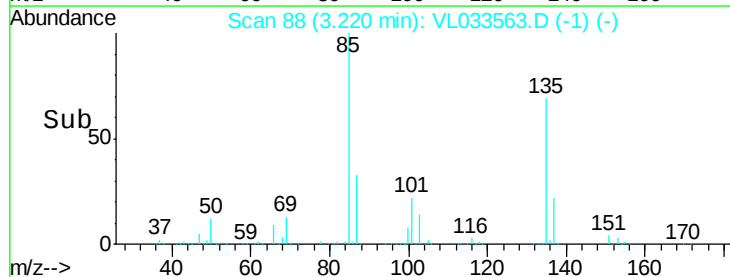
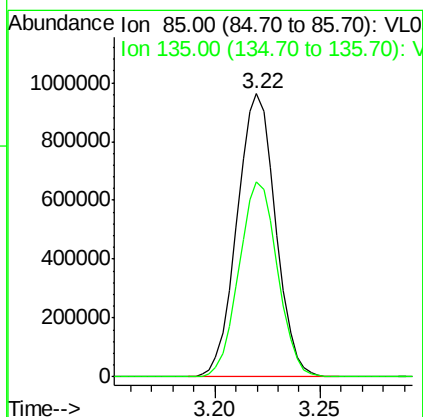
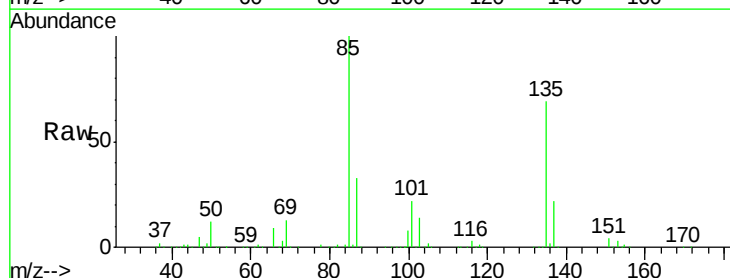
Acq: 10 Apr 2019 11:06

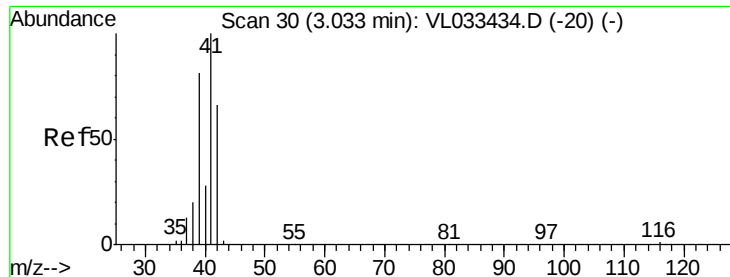
Tgt Ion: 85 Resp: 1216282

Ion Ratio Lower Upper

85 100

135 69.6 54.0 81.0





#9

Propene

Concen: 9.009 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 416741

Ion Ratio Lower Upper

41 100

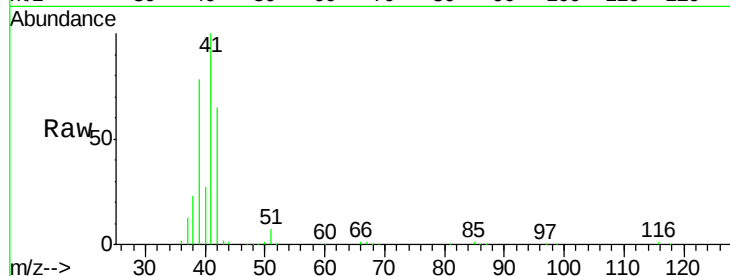
42 68.7 53.9 80.9

Manual Integrations

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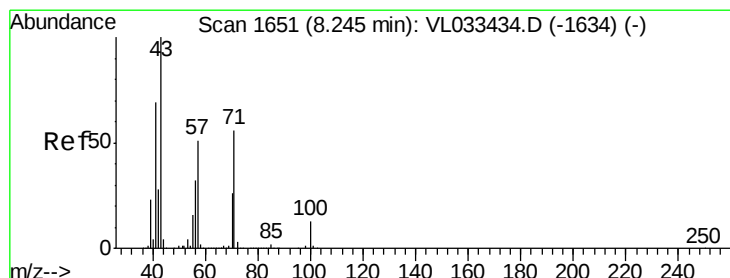
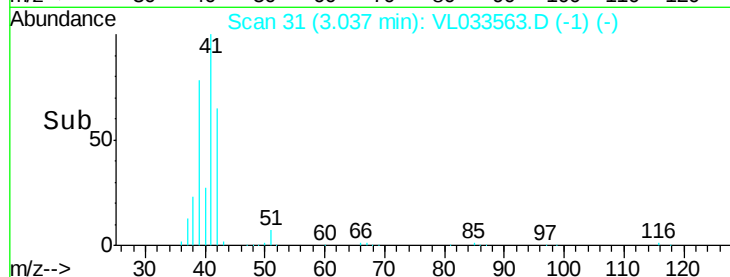
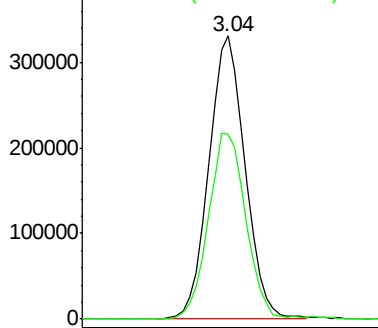
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 8.615 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. 0.00 min

Lab File: VL033563.D

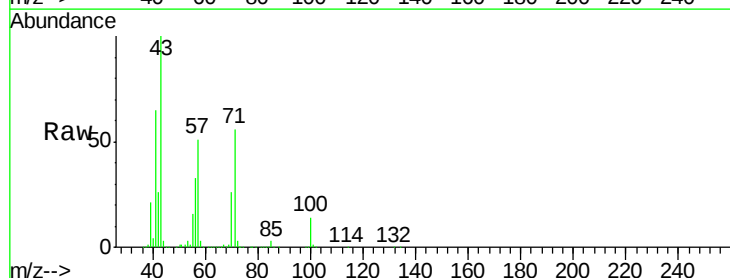
Acq: 10 Apr 2019 11:06

Tgt Ion: 43 Resp: 1065229

Ion Ratio Lower Upper

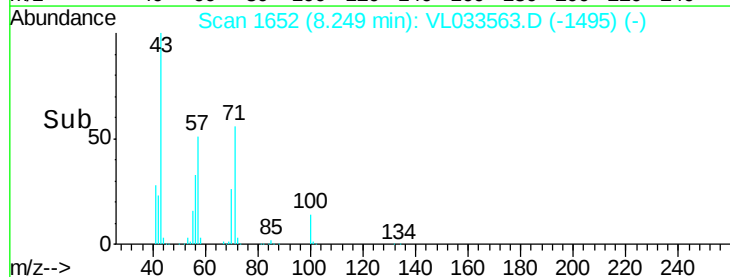
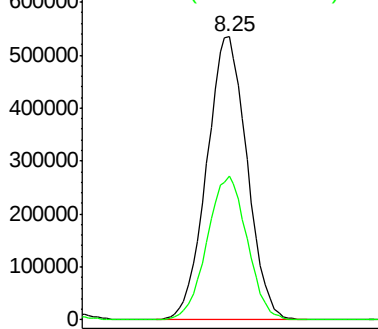
43 100

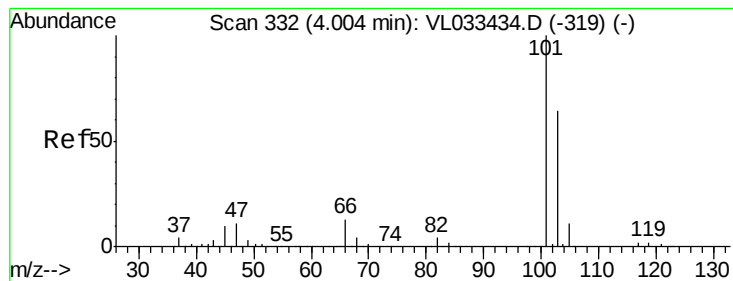
57 50.8 40.6 60.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 7.757 ppbv

RT: 4.00 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:101 Resp: 1333948

Ion Ratio Lower Upper

101 100

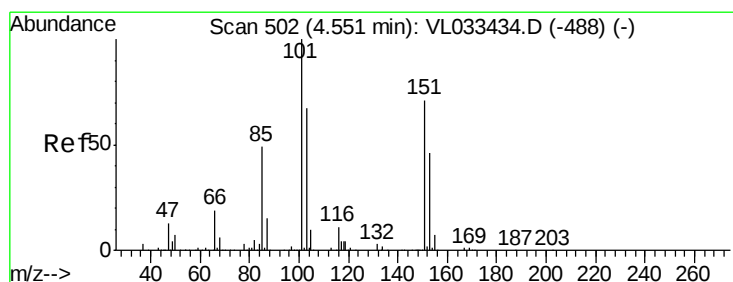
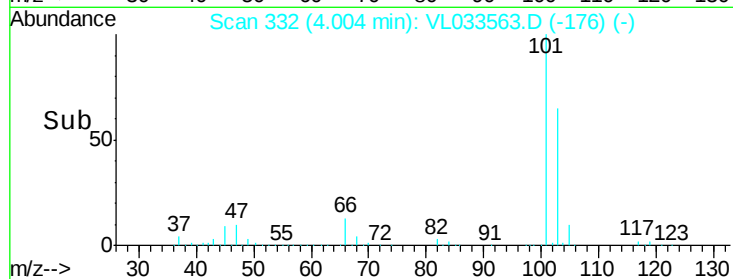
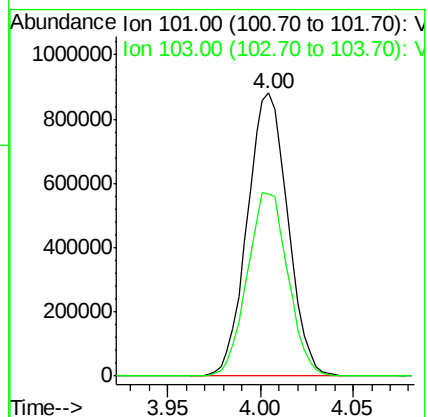
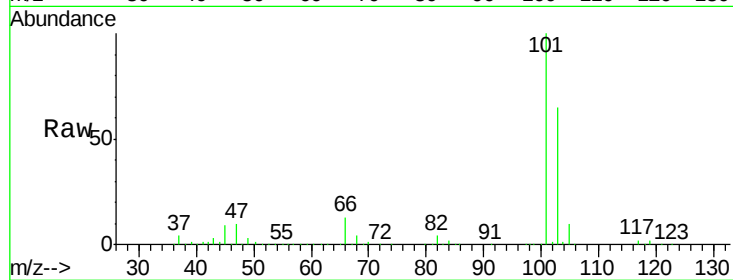
103 64.6 51.3 76.9

Manual Integrations

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4/11/2019 1:00:55 PM



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.068 ppbv

RT: 4.55 min Scan# 502

Delta R.T. -0.00 min

Lab File: VL033563.D

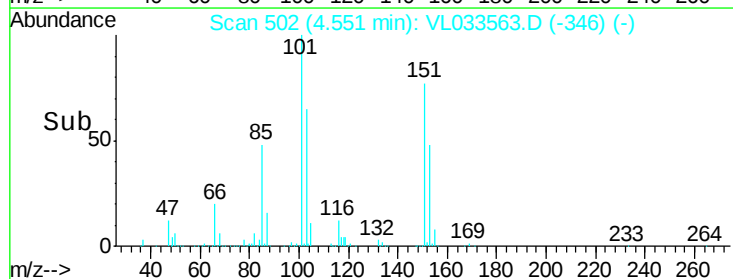
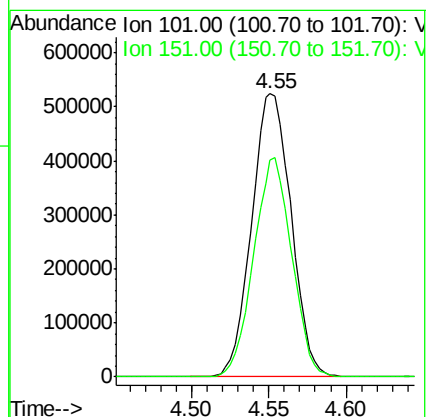
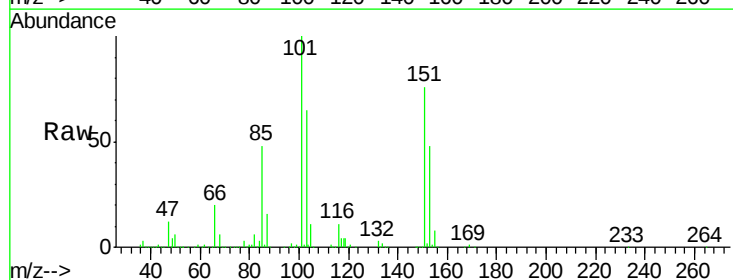
Acq: 10 Apr 2019 11:06

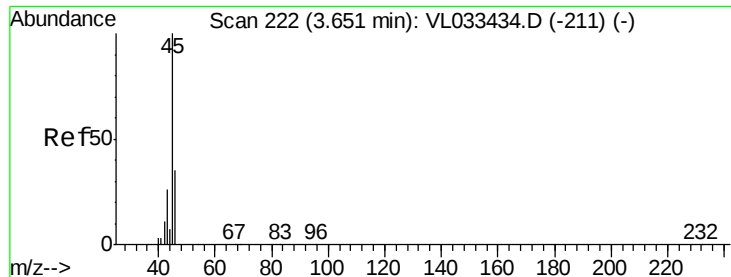
Tgt Ion:101 Resp: 931941

Ion Ratio Lower Upper

101 100

151 74.9 57.7 86.5





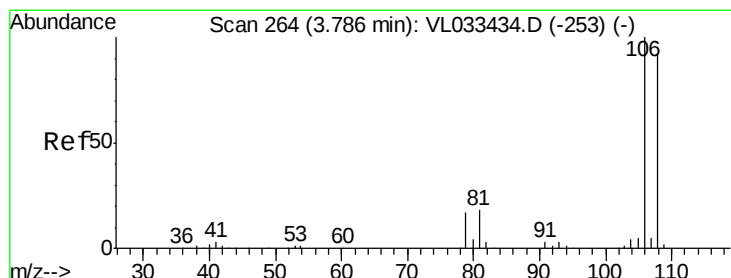
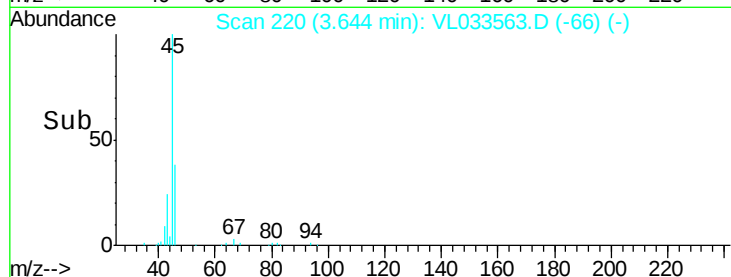
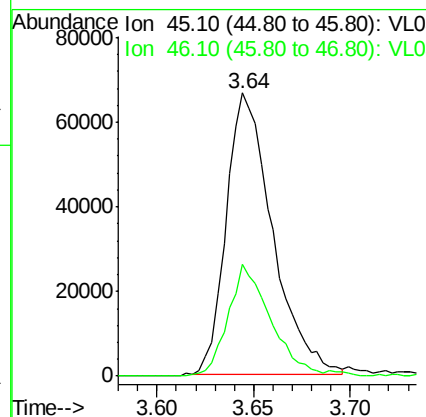
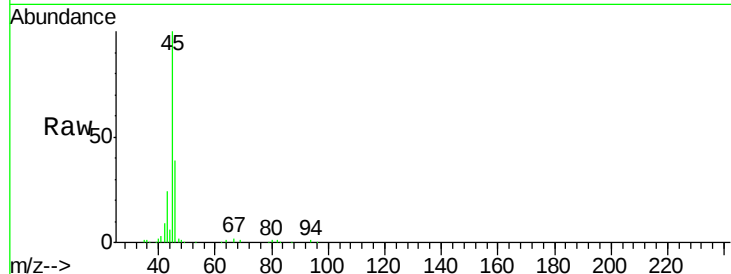
#13
Ethanol
Concen: 9.205 ppbv
RT: 3.64 min Scan# 220
Delta R.T. -0.01 min
Lab File: VL033563.D
Acq: 10 Apr 2019 11:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	45	Resp	110184
Ion Ratio	100	Lower	Upper
46	37.5	25.4	101.8

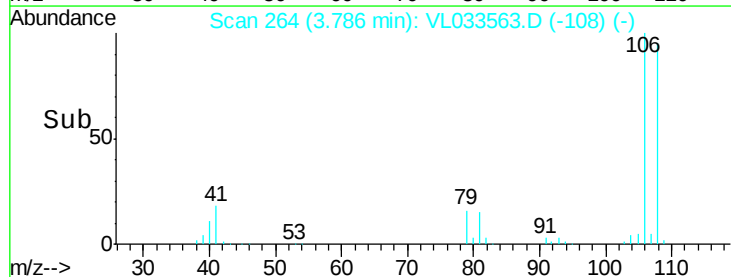
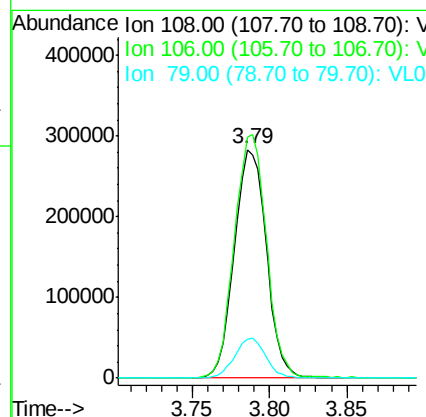
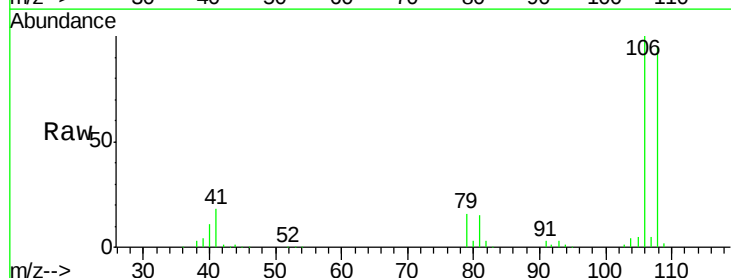
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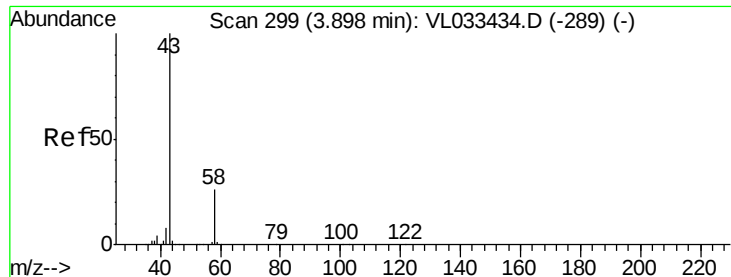
MMDadoda
4/11/2019 1:00:55 PM



#14
Bromoethene
Concen: 8.825 ppbv
RT: 3.79 min Scan# 264
Delta R.T. 0.00 min
Lab File: VL033563.D
Acq: 10 Apr 2019 11:06

Tgt Ion	108	Resp	406551
Ion Ratio	100	Lower	Upper
106	107.3	86.4	129.6
79	17.1	15.8	23.8





#15

Acetone

Concen: 7.537 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 867030

Ion Ratio Lower Upper

43 100

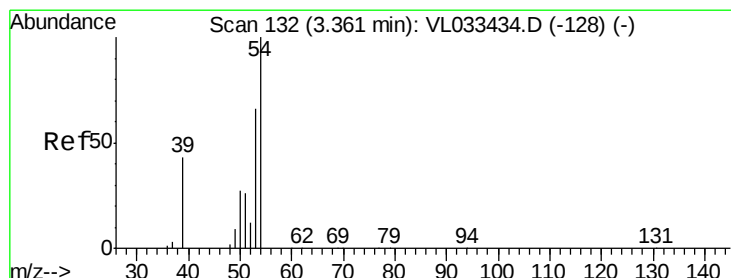
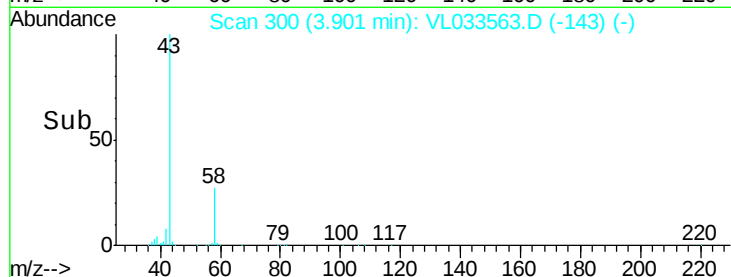
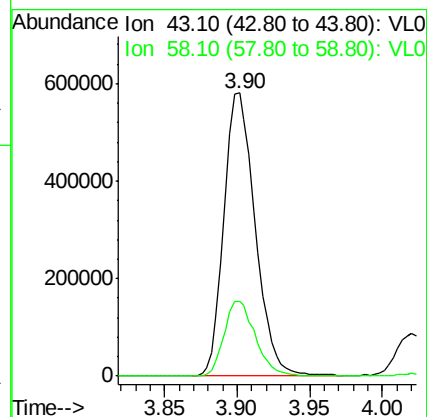
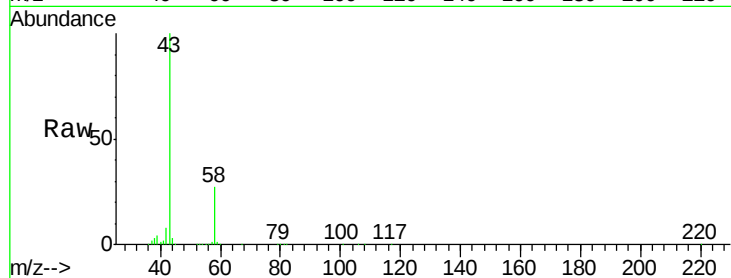
58 26.8 20.5 30.7

Manual Integrations

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MMDadoda

4/11/2019 1:00:55 PM



#16

1,3-Butadiene

Concen: 8.548 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033563.D

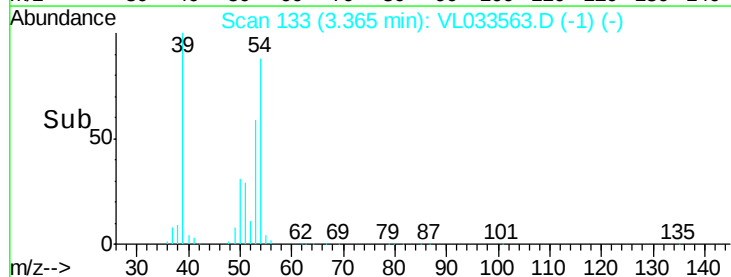
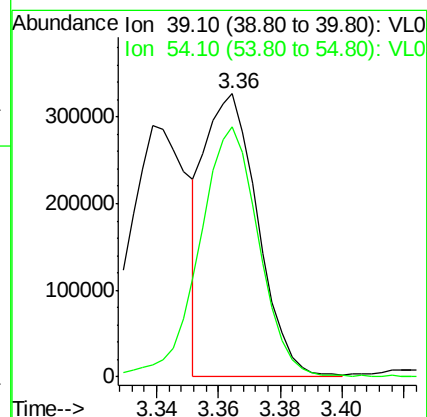
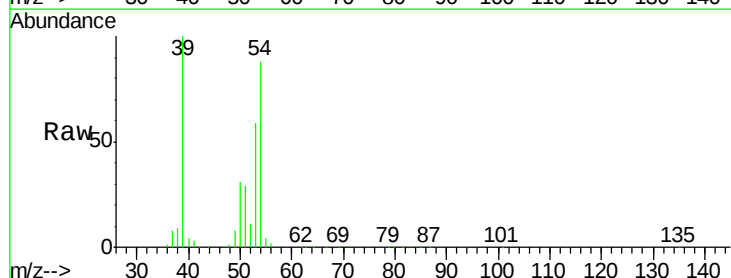
Acq: 10 Apr 2019 11:06

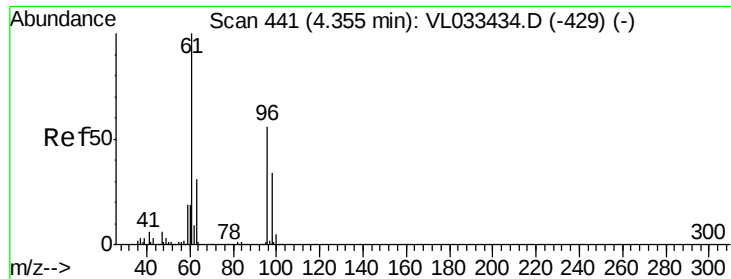
Tgt Ion: 39 Resp: 390030

Ion Ratio Lower Upper

39 100

54 99.4 69.4 104.2





#17

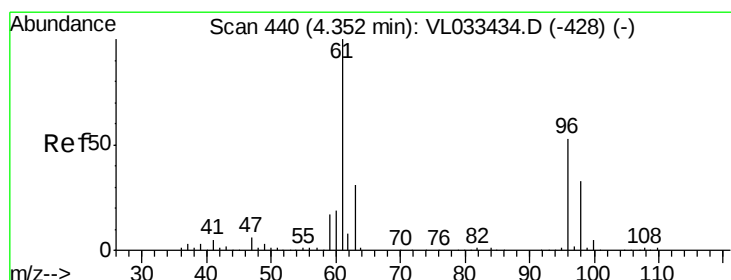
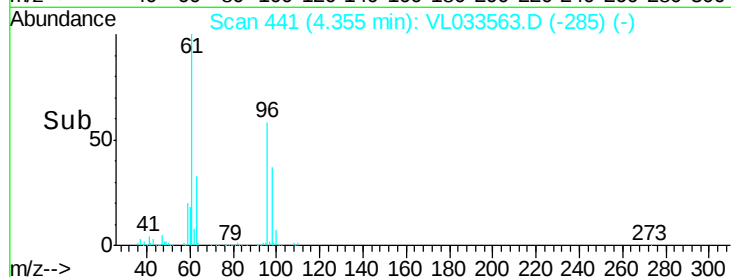
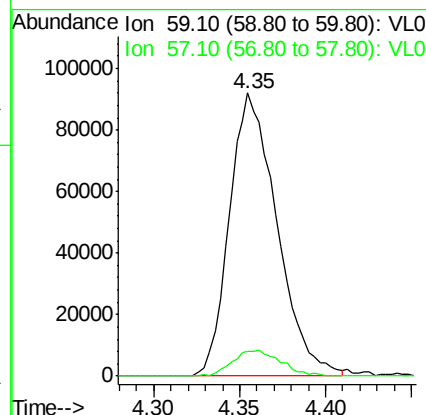
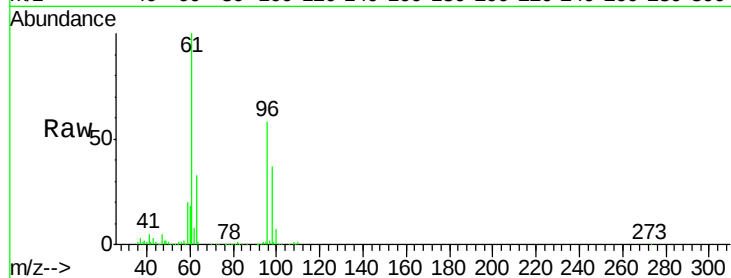
tert-Butyl alcohol
Concen: 8.292 ppbv
RT: 4.35 min Scan# 441
Delta R.T. -0.00 min
Lab File: VL033563.D
Acq: 10 Apr 2019 11:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 59 Resp: 175379
Ion Ratio Lower Upper
59 100
57 9.6 7.8 11.8

Manual Integrations
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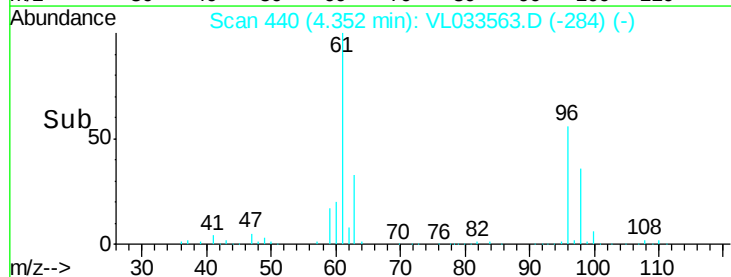
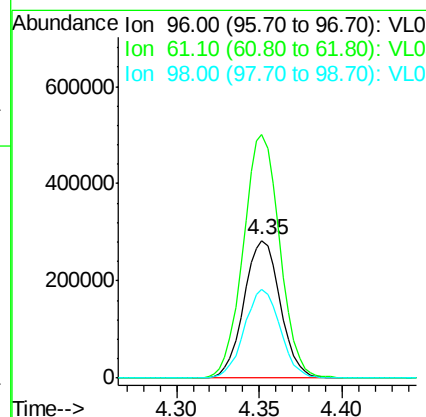
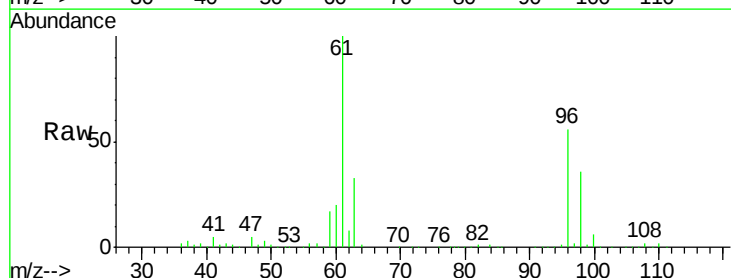
MMDadoda
4/11/2019 1:00:55 PM

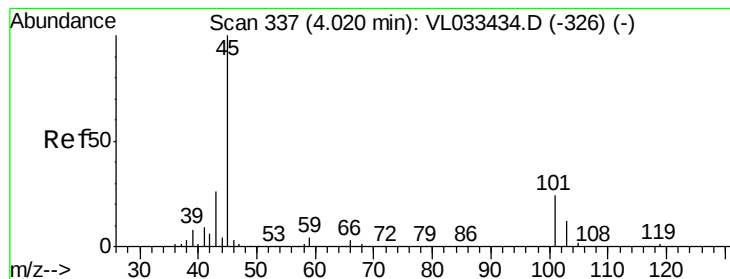


#18

1,1-Dichloroethene
Concen: 8.684 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033563.D
Acq: 10 Apr 2019 11:06

Tgt Ion: 96 Resp: 430860
Ion Ratio Lower Upper
96 100
61 177.1 149.8 224.6
98 64.4 48.7 73.1





#19

Isopropyl Alcohol

Concen: 8.799 ppbv

RT: 4.02 min Scan# 337

Delta R.T. 0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 640214

Ion Ratio Lower Upper

45 100

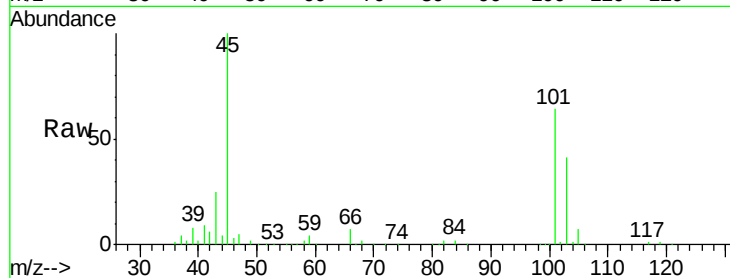
58 1.5 1.4 2.2

Manual Integrations

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4/11/2019 1:00:55 PM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.02

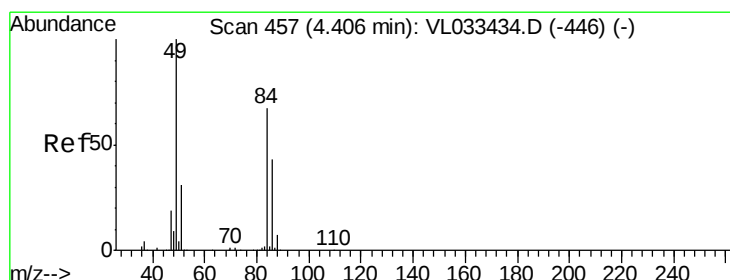
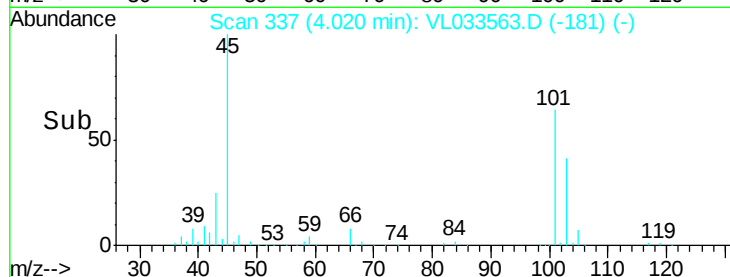
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 7.290 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Tgt Ion: 84 Resp: 355961

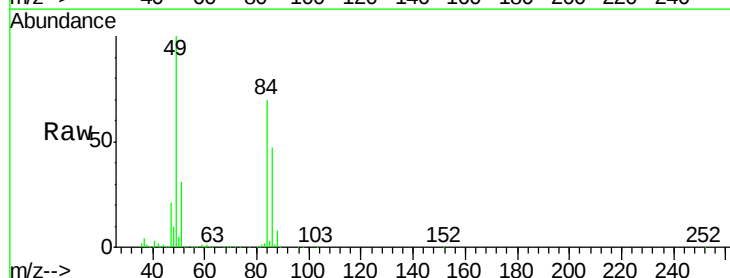
Ion Ratio Lower Upper

84 100

49 142.5 120.0 180.0

51 44.6 36.7 55.1

86 67.1 51.9 77.9



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

4.41

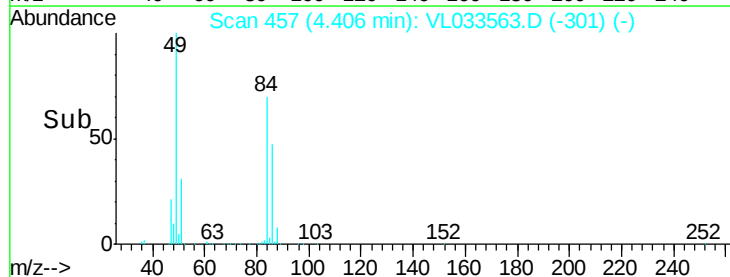
300000

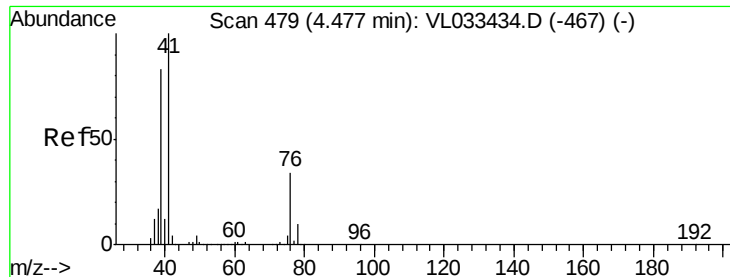
200000

100000

0

Time-->





#21

Allvl Chloride

Concen: 8.710 ppbv

RT: 4.48 min Scan# 479

Delta R.T. 0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Instrument :

MSVOA_L

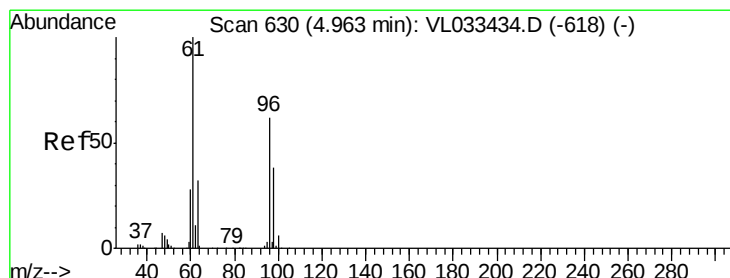
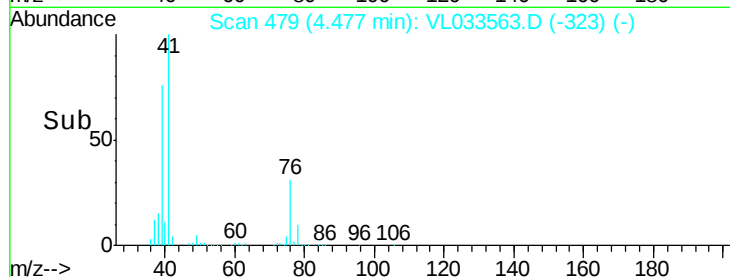
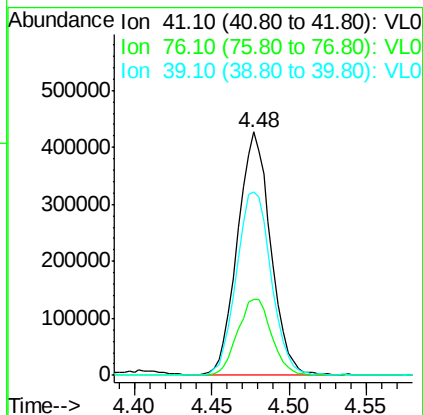
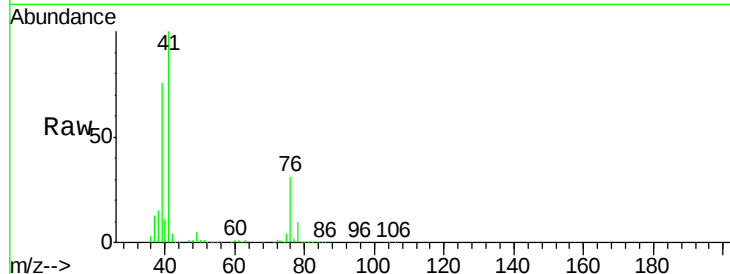
ClientSampleId :

VSTDCCC010

Tot Ion:	41	Resp:	633380
Ion	Ratio	Lower	Upper
41	100		
76	32.3	25.4	38.2
39	79.6	65.3	97.9

Manual Integrations
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MMDadoda
4/11/2019 1:00:55 PM



#22

trans-1,2-Dichloroethene

Concen: 8.433 ppbv

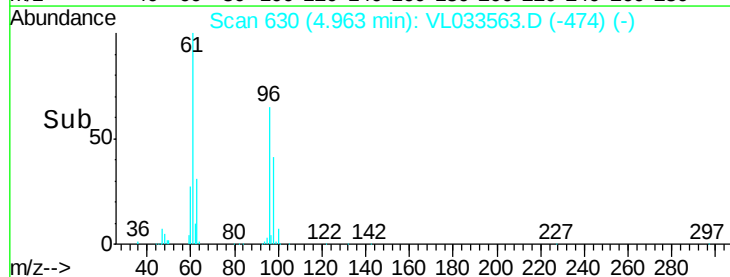
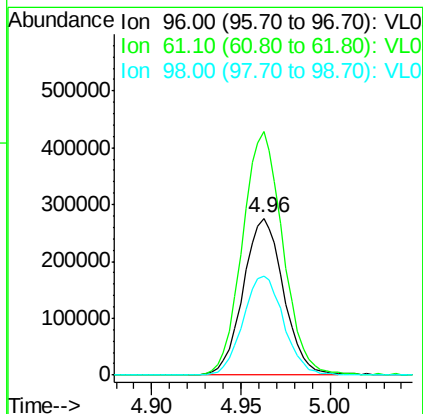
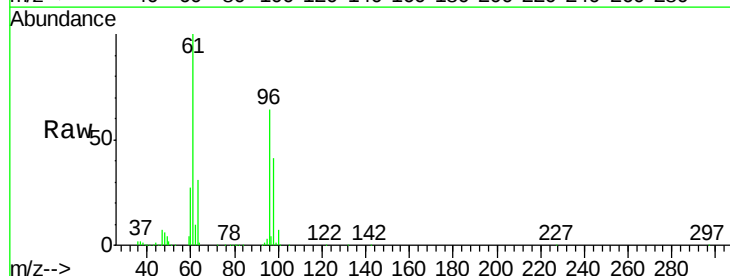
RT: 4.96 min Scan# 630

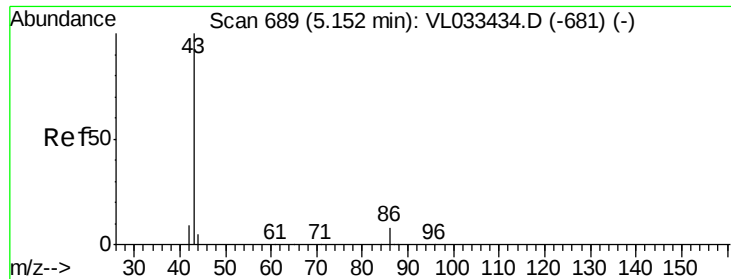
Delta R.T. 0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Tgt Ion:	96	Resp:	436511
Ion	Ratio	Lower	Upper
96	100		
61	155.4	128.9	193.3
98	63.5	49.5	74.3





#23

Vinyl Acetate

Concen: 9.142 ppbv

RT: 5.16 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1496827

Ion Ratio Lower Upper

43 100

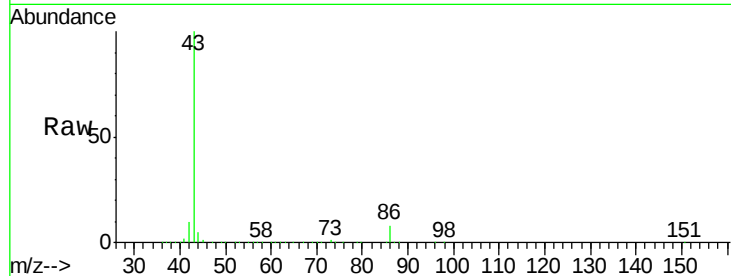
86 8.1 5.6 8.4

42 9.6 8.0 12.0

44 4.8 3.9 5.9

Manual Integrations
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MMDadoda
4/11/2019 1:00:55 PM

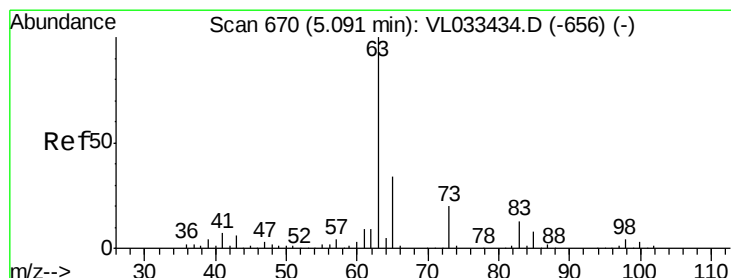
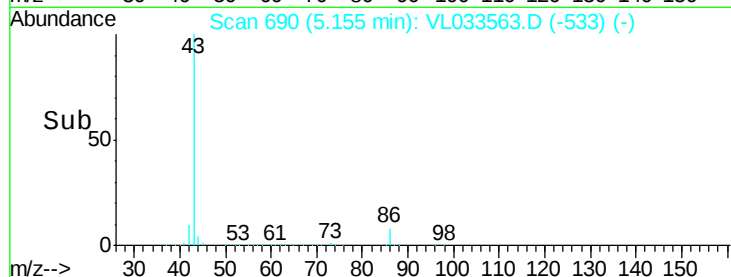
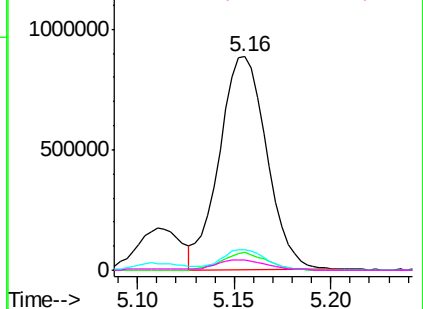


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.367 ppbv

RT: 5.09 min Scan# 670

Delta R.T. 0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

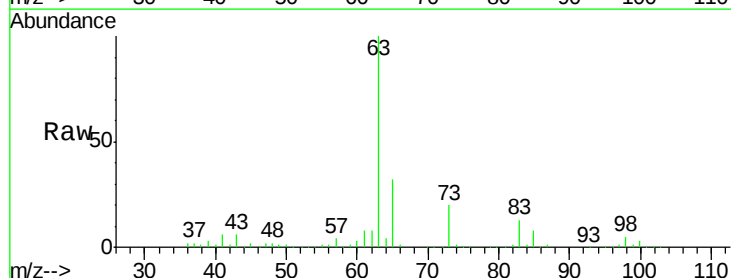
Tgt Ion: 63 Resp: 1040688

Ion Ratio Lower Upper

63 100

98 5.0 2.2 6.6

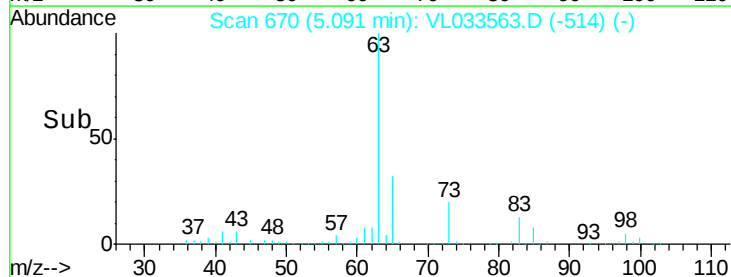
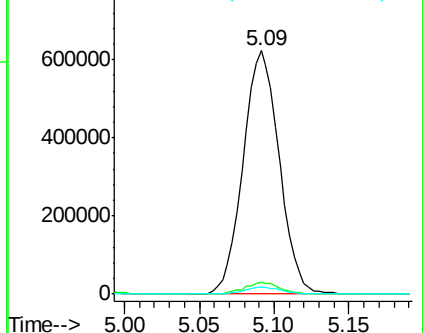
100 2.8 1.5 4.4

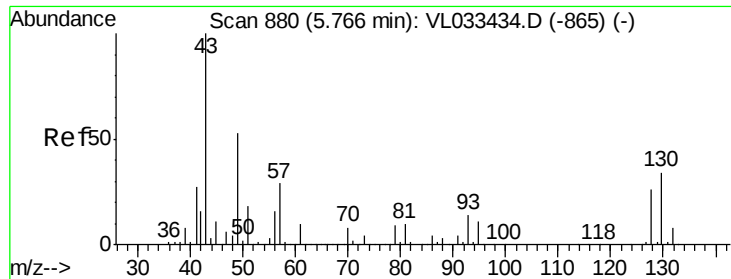


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 8.239 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1758405

Ion Ratio Lower Upper

43 100

45 9.9 7.8 11.6

61 9.8 7.3 10.9

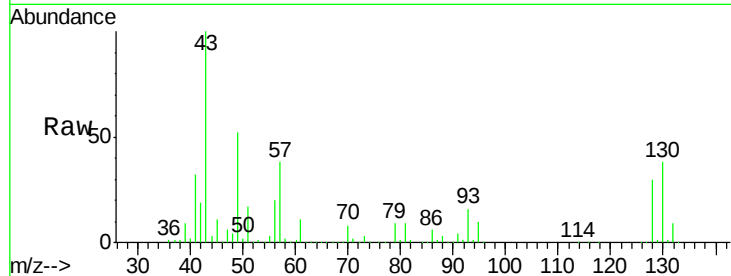
70 7.3 5.6 8.4

Manual Integrations

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4/11/2019 1:00:55 PM

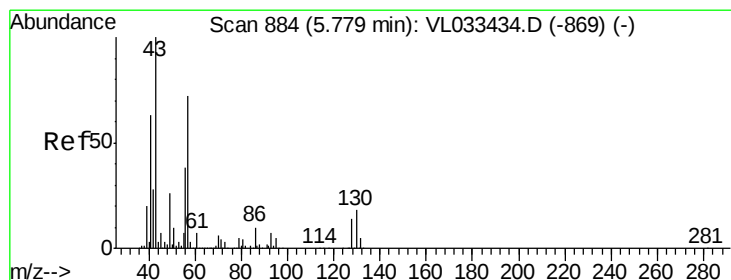
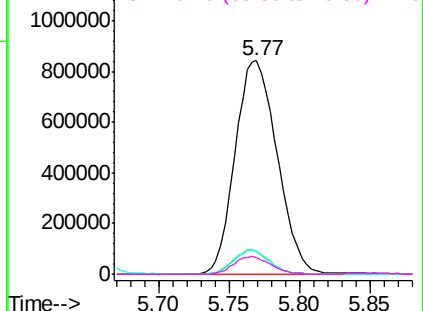
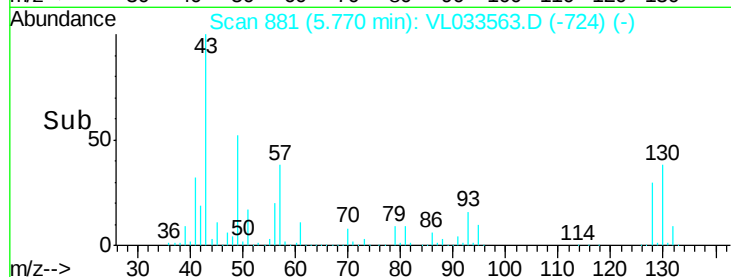


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 8.469 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Tgt Ion: 57 Resp: 803733

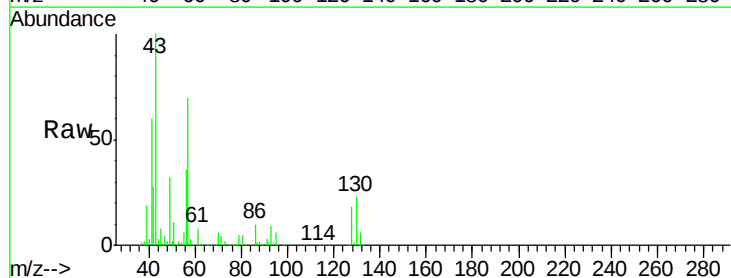
Ion Ratio Lower Upper

57 100

41 83.9 70.7 106.1

43 219.6 182.6 274.0

56 51.5 42.0 63.0

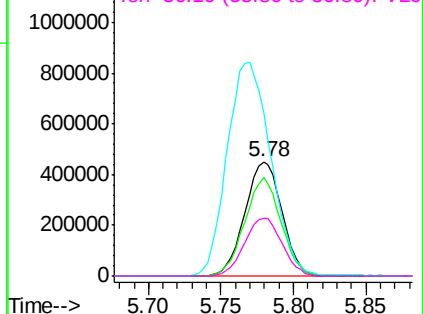
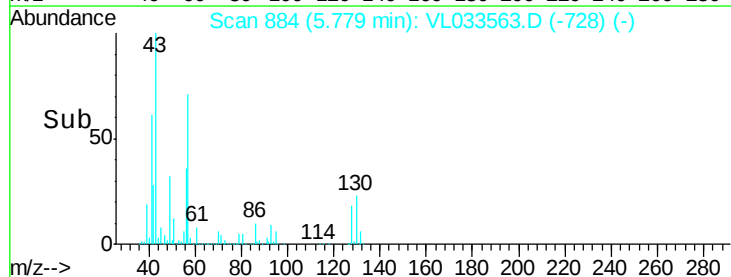


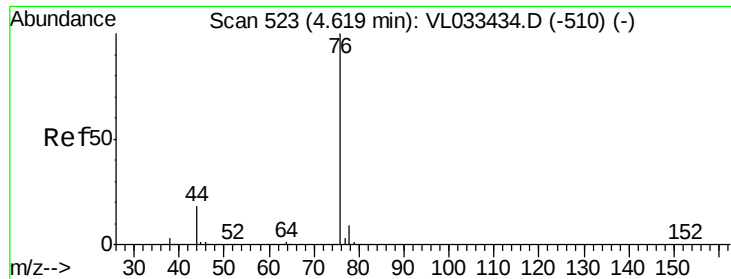
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 9.164 ppbv

RT: 4.62 min Scan# 523

Delta R.T. 0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1034128

Ion Ratio Lower Upper

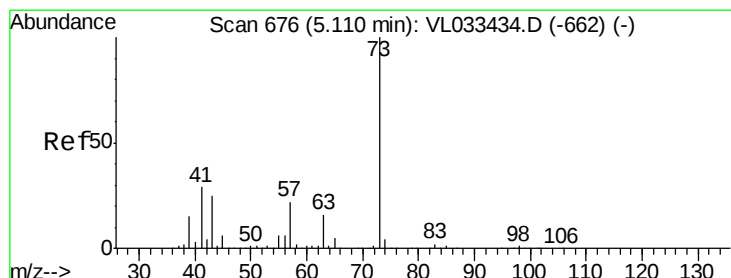
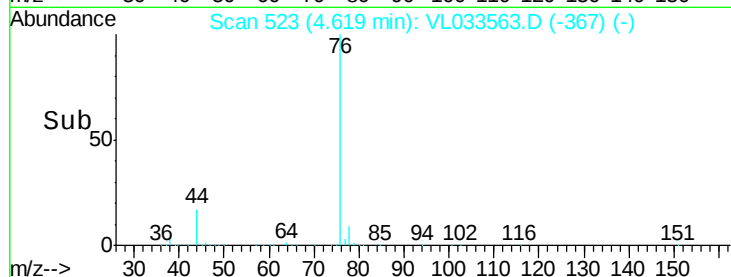
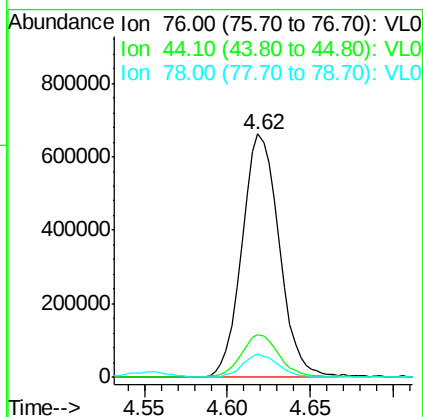
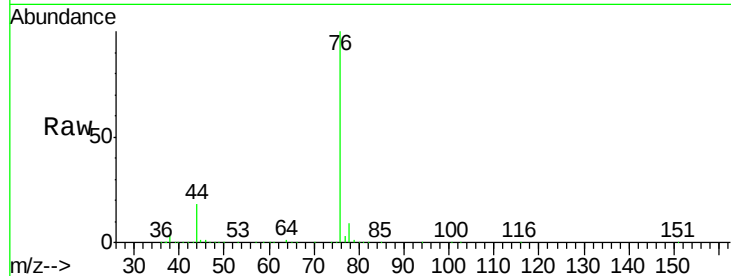
76 100

44 17.5 14.8 22.2

78 9.0 7.6 11.4

Manual Integrations
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MMDadoda
4/11/2019 1:00:55 PM



#28

Methyl tert-Butyl Ether

Concen: 9.419 ppbv

RT: 5.11 min Scan# 677

Delta R.T. 0.00 min

Lab File: VL033563.D

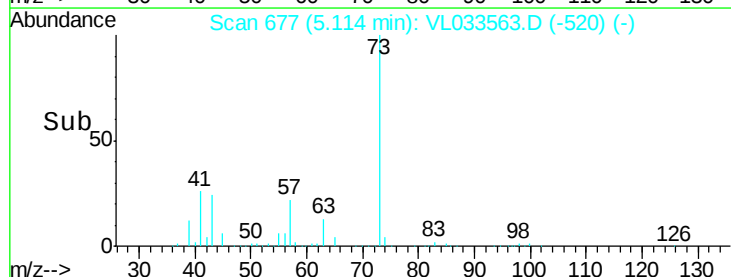
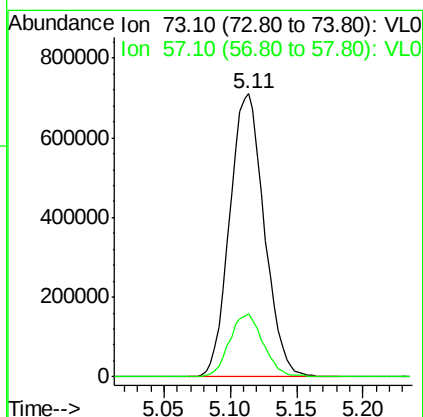
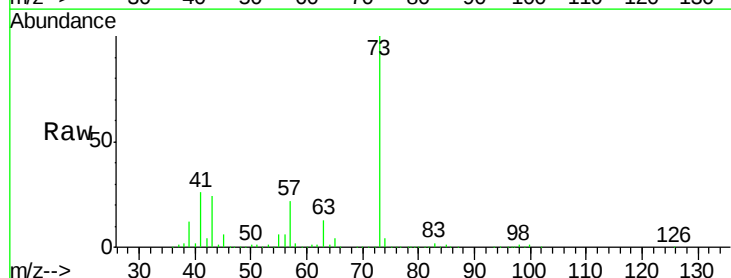
Acq: 10 Apr 2019 11:06

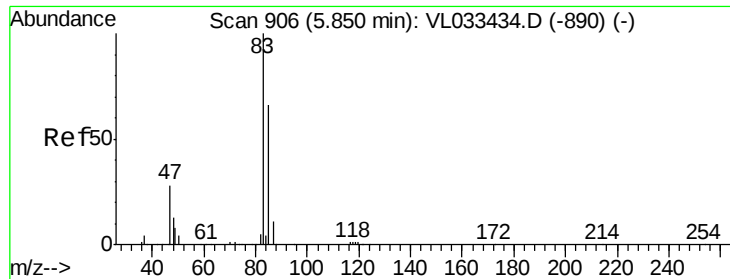
Tgt Ion: 73 Resp: 1287401

Ion Ratio Lower Upper

73 100

57 21.9 17.4 26.2





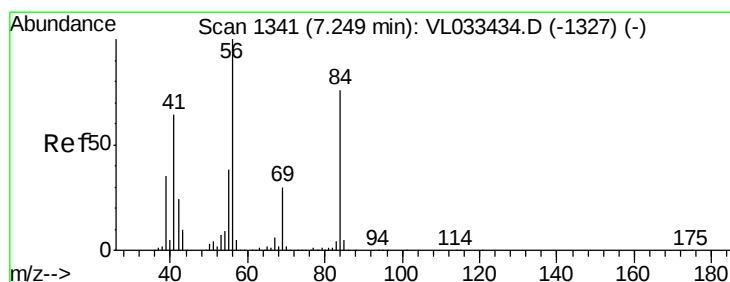
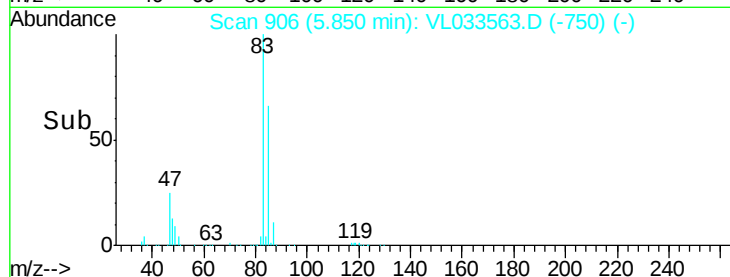
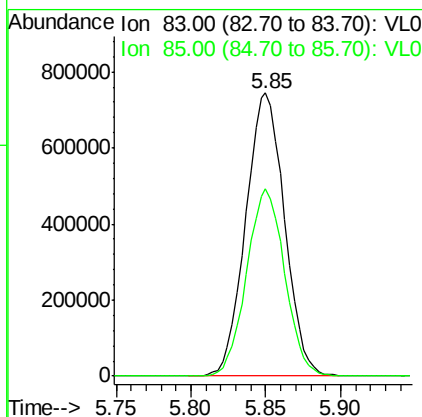
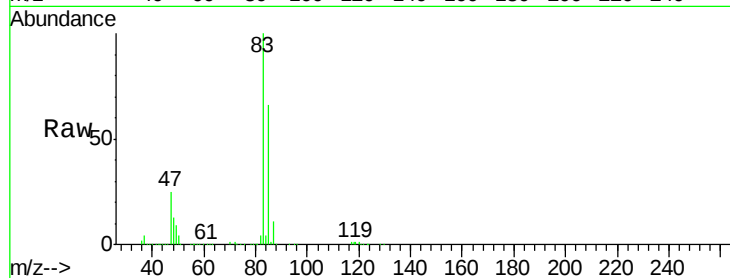
#29
Chloroform
Concen: 8.258 ppbv
RT: 5.85 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL033563.D
Acq: 10 Apr 2019 11:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 1343386
Ion Ratio Lower Upper
83 100
85 66.1 52.6 79.0

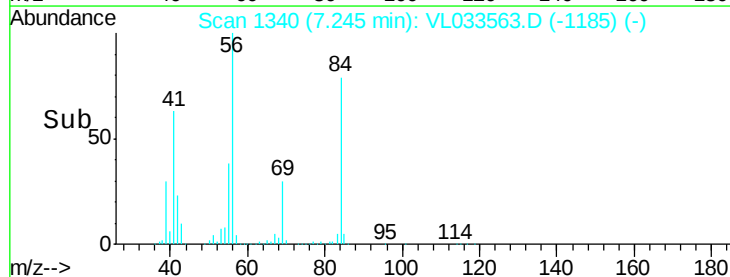
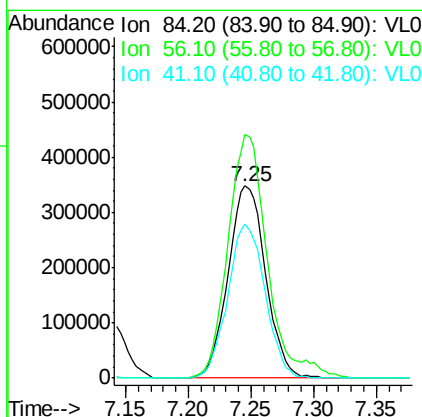
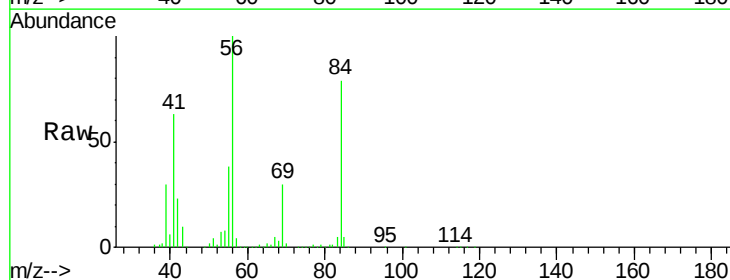
Manual Integrations
APPROVED

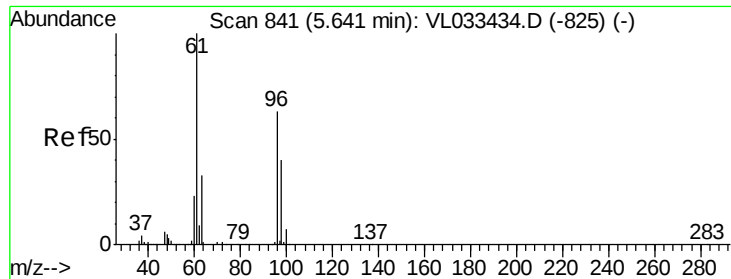
MMDadoda
4/11/2019 1:00:55 PM



#30
Cyclohexane
Concen: 9.577 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VL033563.D
Acq: 10 Apr 2019 11:06

Tgt Ion: 84 Resp: 719021
Ion Ratio Lower Upper
84 100
56 134.2 109.7 164.5
41 80.1 68.2 102.2





#31

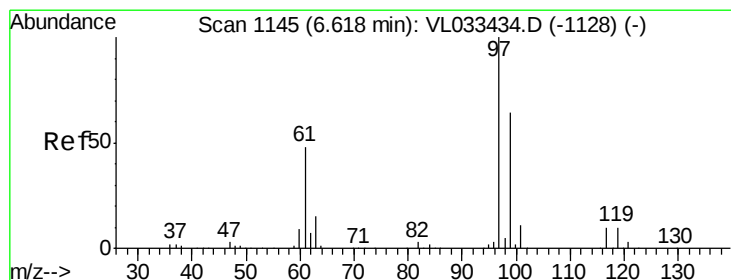
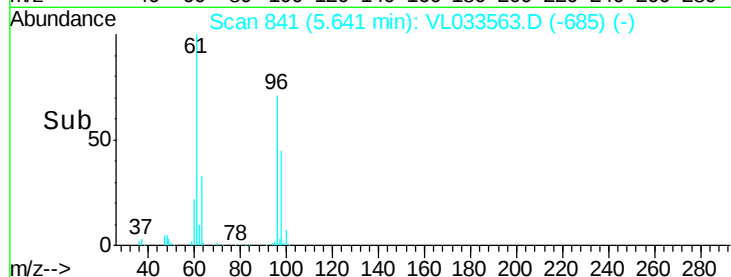
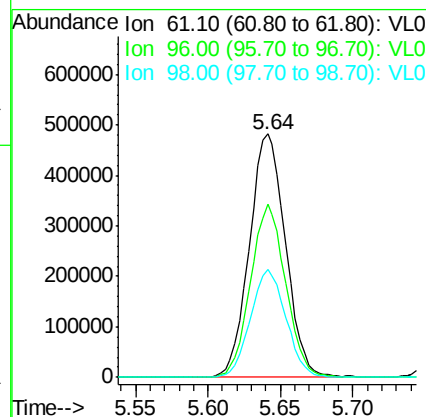
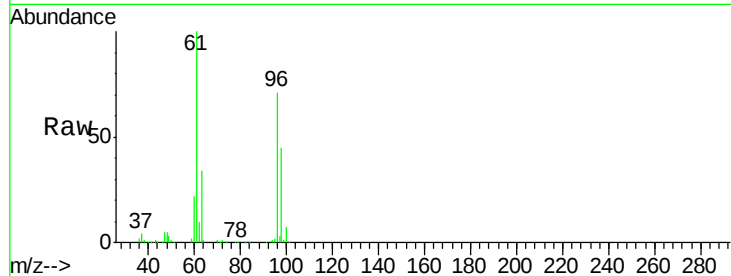
cis-1,2-Dichloroethene
 Concen: 8.859 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. 0.00 min
 Lab File: VL033563.D
 Acq: 10 Apr 2019 11:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	71.0	50.6	76.0
98	44.6	32.2	48.2

Manual Integrations
 APPROVED

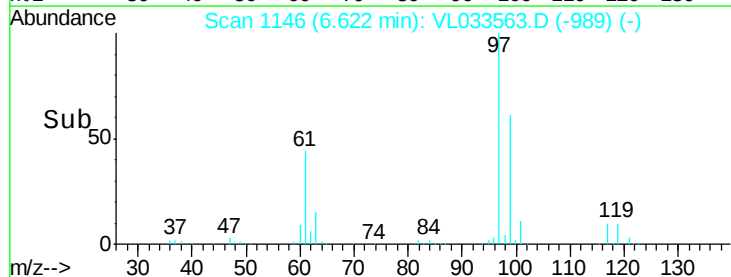
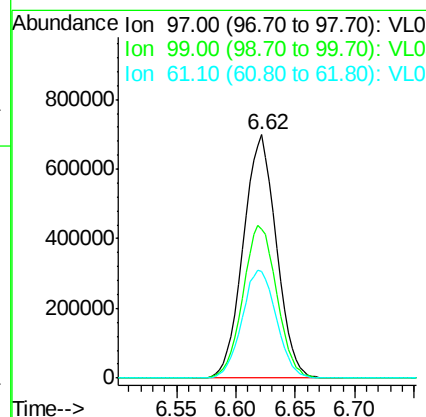
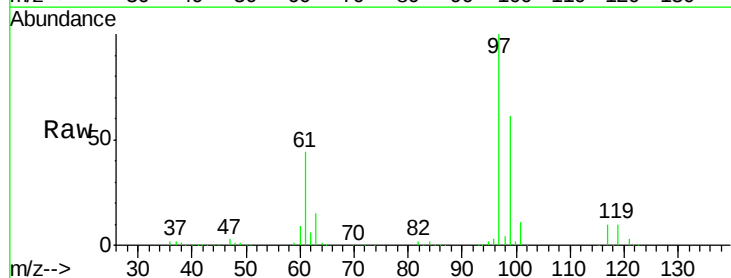
MMDadoda
 4/11/2019 1:00:55 PM

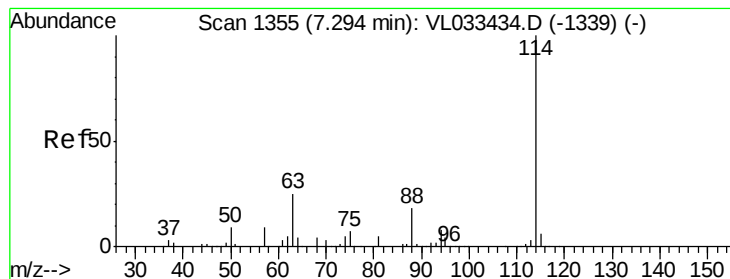


#32

1,1,1-Trichloroethane
 Concen: 8.710 ppbv
 RT: 6.62 min Scan# 1146
 Delta R.T. 0.00 min
 Lab File: VL033563.D
 Acq: 10 Apr 2019 11:06

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.5	77.3
61	46.0	38.8	58.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. 0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:114 Resp: 2493541

Ion Ratio Lower Upper

114 100

63 24.4 21.5 32.3

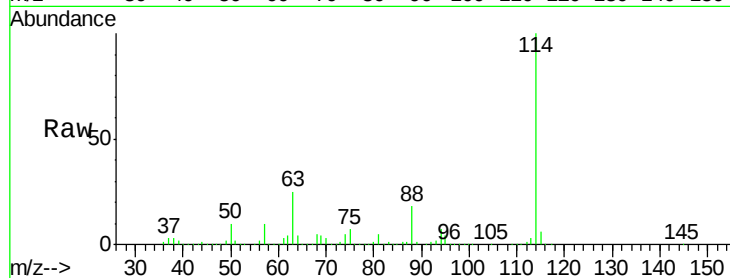
88 17.6 14.5 21.7

Manual Integrations

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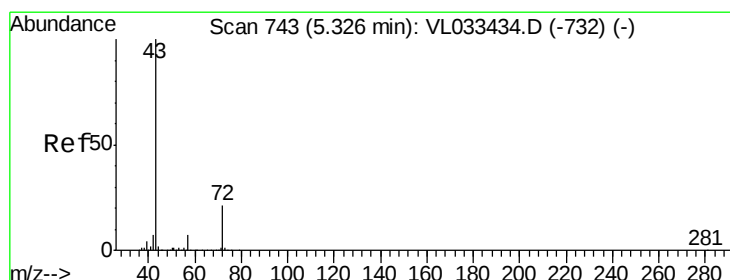
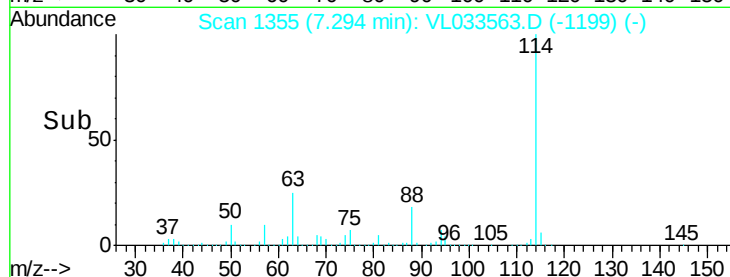
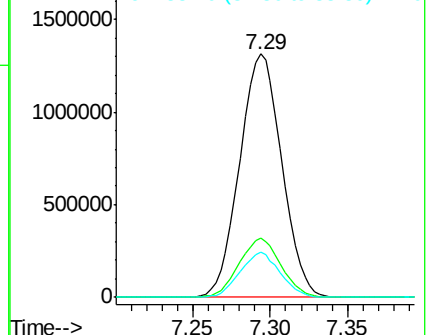
4/11/2019 1:00:55 PM



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 7.843 ppbv

RT: 5.33 min Scan# 744

Delta R.T. 0.00 min

Lab File: VL033563.D

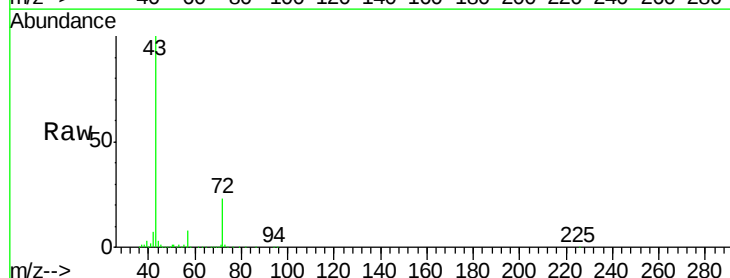
Acq: 10 Apr 2019 11:06

Tgt Ion: 43 Resp: 1175020

Ion Ratio Lower Upper

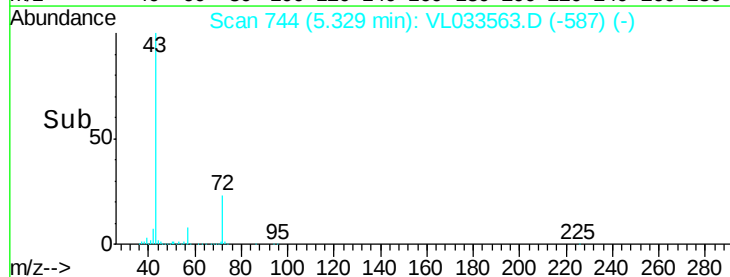
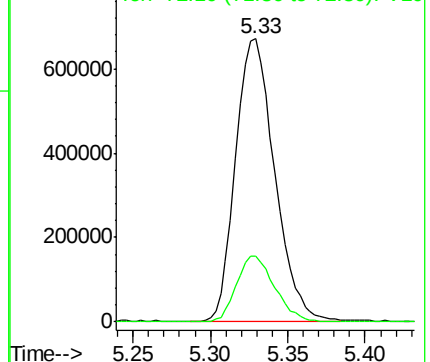
43 100

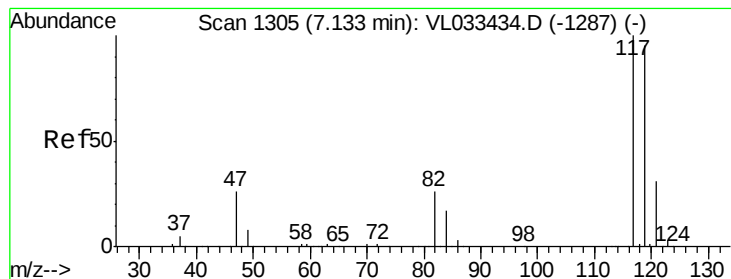
72 22.9 17.4 26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 7.911 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 1397209

Ion Ratio Lower Upper

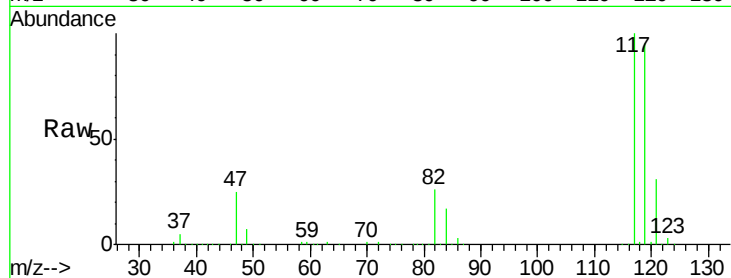
117 100

119 95.2 75.8 113.8

121 31.1 24.7 37.1

Manual Integrations
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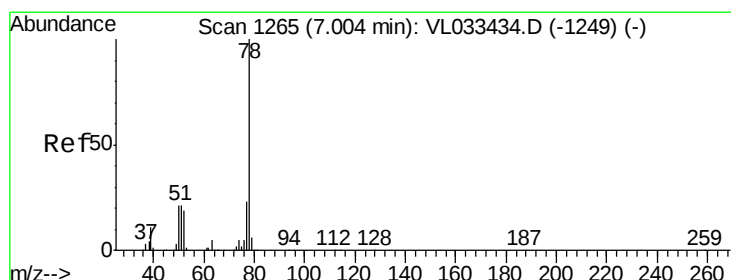
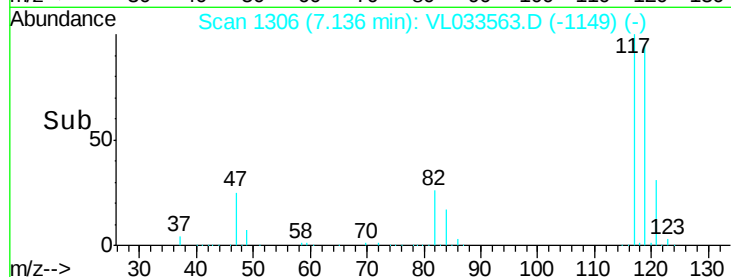
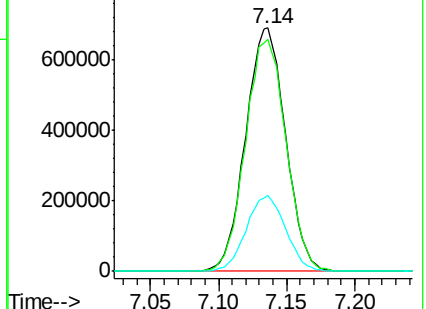
MMDadoda
4/11/2019 1:00:55 PM



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: 8.389 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. 0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

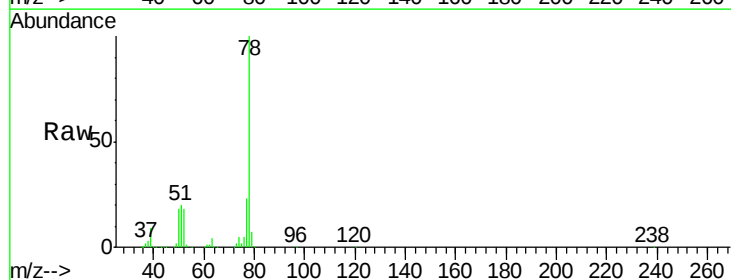
Tgt Ion: 78 Resp: 1755271

Ion Ratio Lower Upper

78 100

77 23.0 18.1 27.1

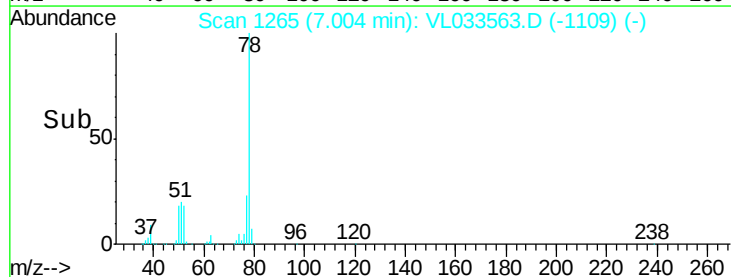
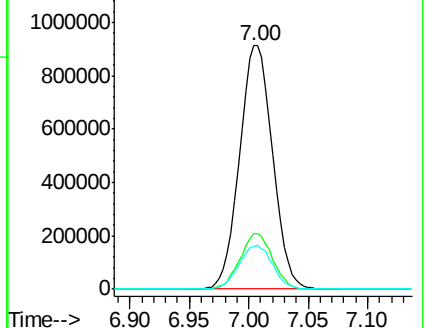
50 17.7 16.7 25.1

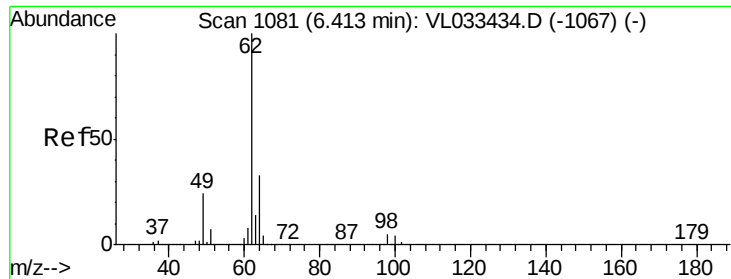


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





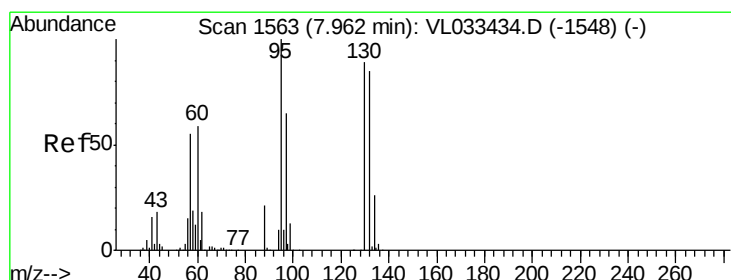
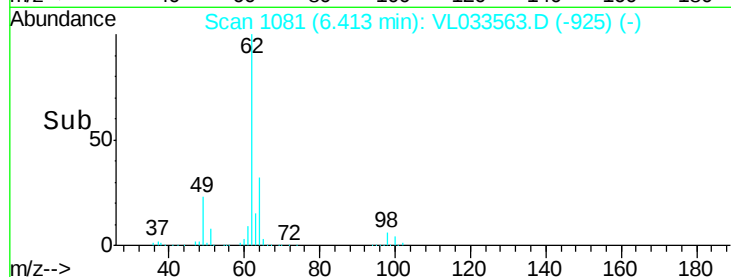
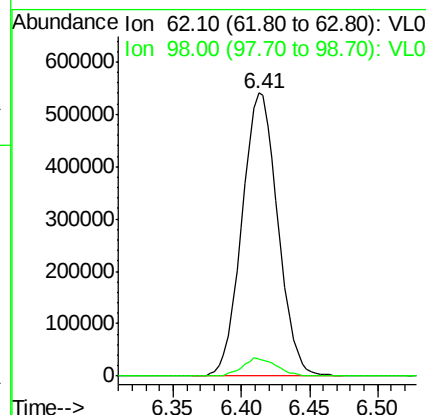
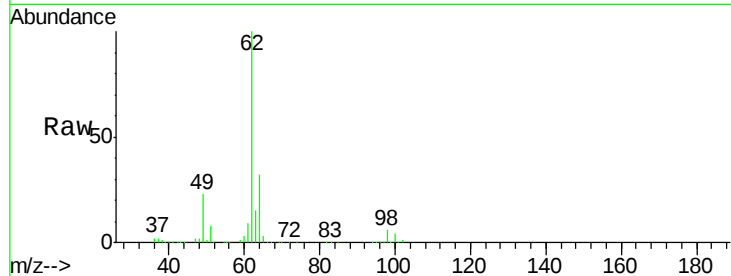
#37
 1,2-Dichloroethane
 Concen: 7.030 ppbv
 RT: 6.41 min Scan# 1081
 Delta R.T. 0.00 min
 Lab File: VL033563.D
 Acq: 10 Apr 2019 11:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Resp	Lower	Upper
62	100	985936		
98	6.2		4.4	6.6

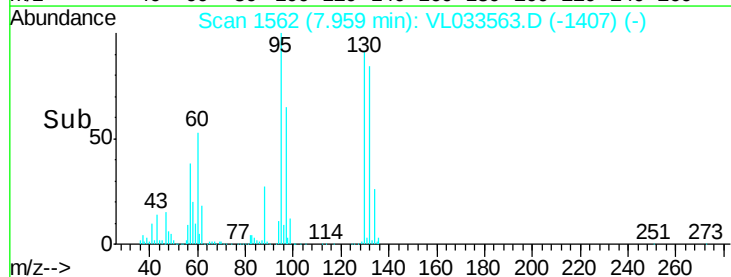
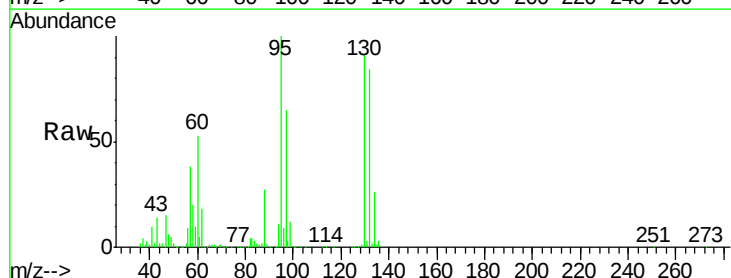
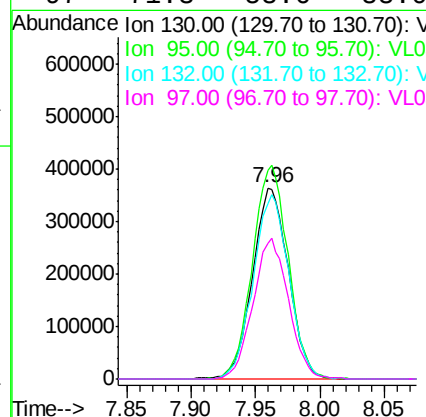
Manual Integrations
 APPROVED

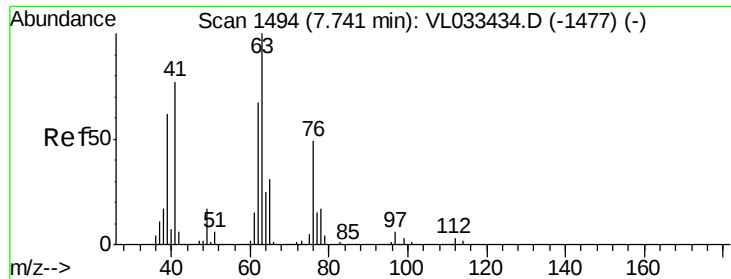
MMDadoda
 4/11/2019 1:00:55 PM



#38
 Trichloroethene
 Concen: 8.958 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. -0.00 min
 Lab File: VL033563.D
 Acq: 10 Apr 2019 11:06

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	705353		
95	109.6		89.8	134.8
132	91.9		76.6	115.0
97	71.3		58.6	88.0





#39

1,2-Dichloropropane

Concen: 7.987 ppbv

RT: 7.74 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Instrument :

MSVOA_L

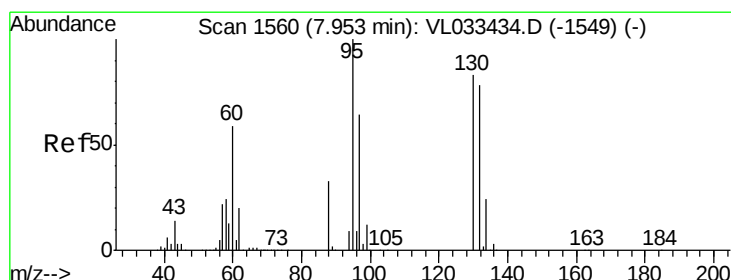
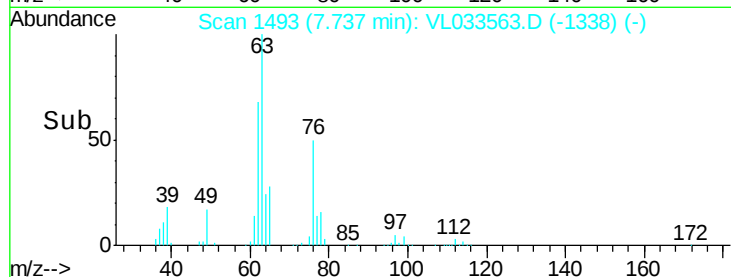
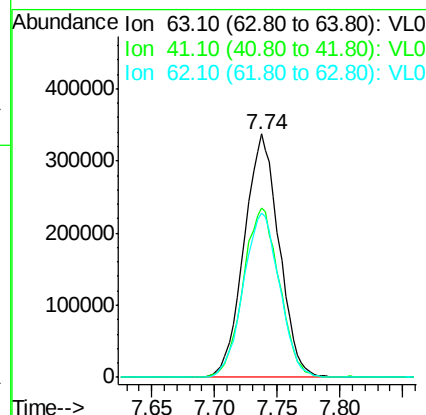
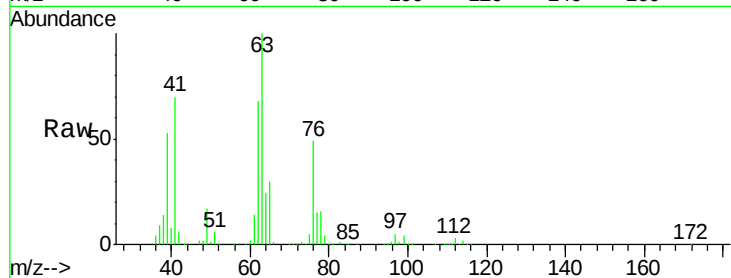
ClientSampleId :

VSTDCCC010

Tot Ion:	63	Resp:	654579
Ion	Ratio	Lower	Upper
63	100		
41	69.7	61.2	91.8
62	67.6	54.0	81.0

Manual Integrations
APPROVED

MMDadoda
4/11/2019 1:00:55 PM



#40

1,4-Dioxane

Concen: 8.830 ppbv

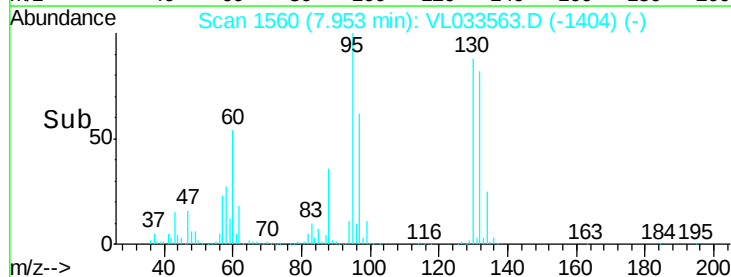
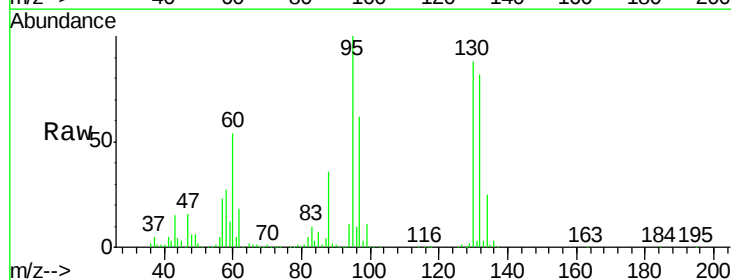
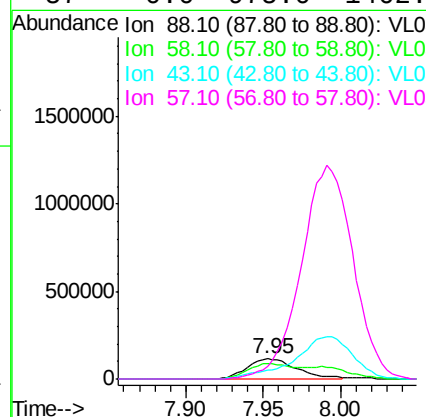
RT: 7.95 min Scan# 1560

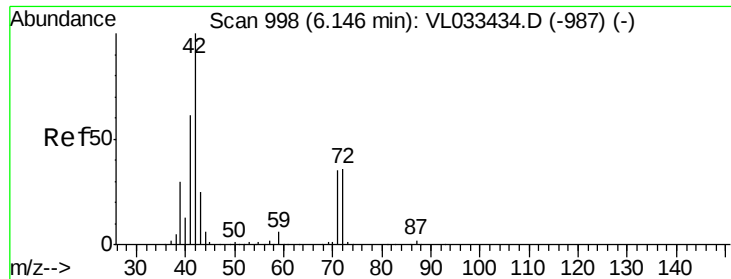
Delta R.T. 0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Tgt Ion:	88	Resp:	258116
Ion	Ratio	Lower	Upper
88	100		
58	123.7	105.6	158.4
43	0.0	216.7	325.1#
57	0.0	975.0	1462.4#





#41

Tetrahydrofuran

Concen: 8.245 ppbv

RT: 6.15 min Scan# 998

Delta R.T. 0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Instrument :

MSVOA_L

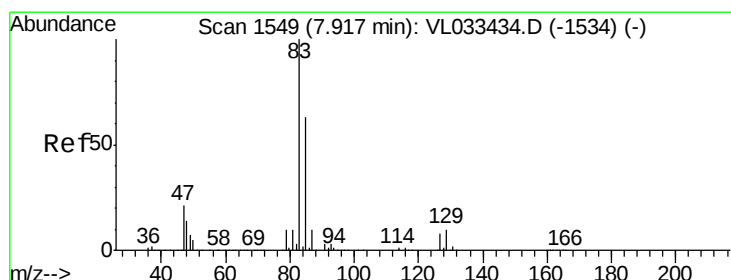
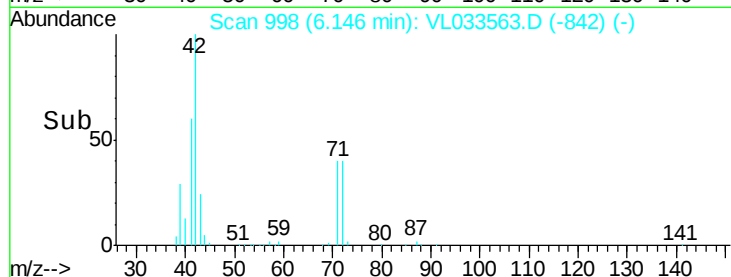
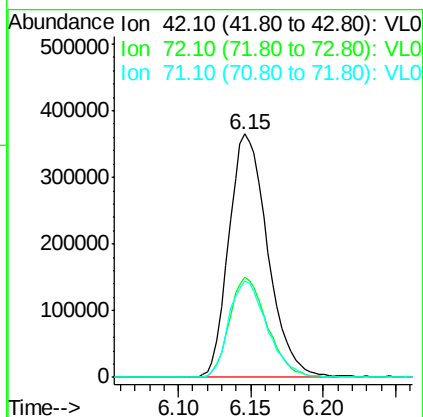
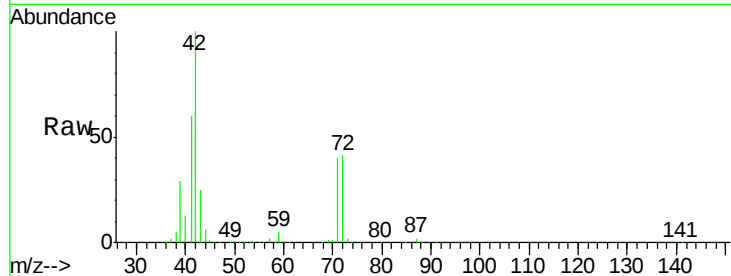
ClientSampleId :

VSTDCCC010

Tot Ion:	42	Resp:	679408
Ion	Ratio	Lower	Upper
42	100		
72	40.0	30.2	45.2
71	39.3	29.4	44.2

Manual Integrations
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MMDadoda
4/11/2019 1:00:55 PM



#42

Bromodichloromethane

Concen: 7.808 ppbv

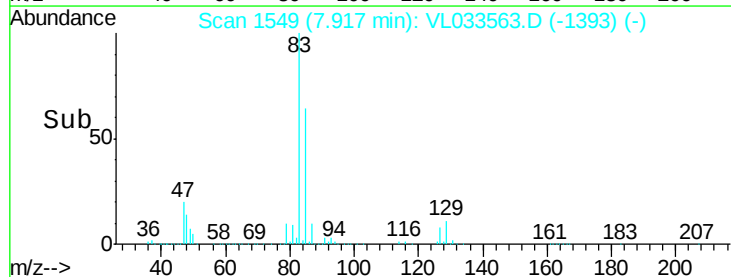
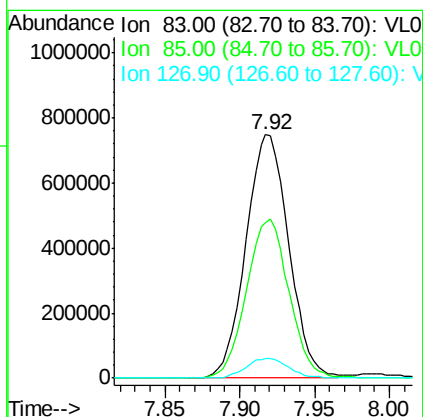
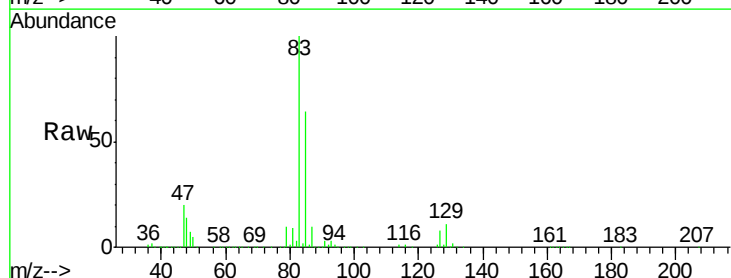
RT: 7.92 min Scan# 1549

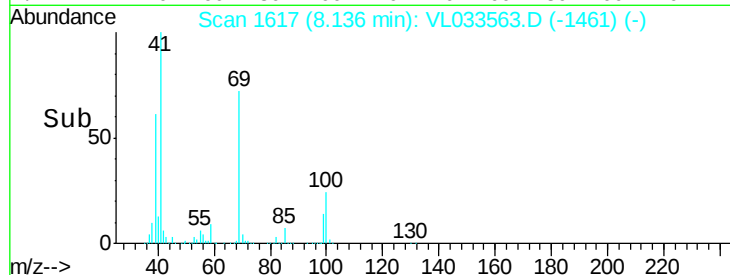
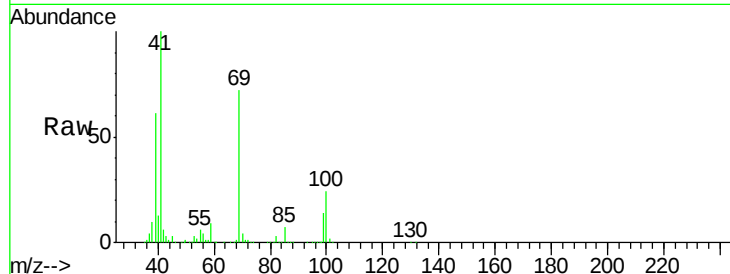
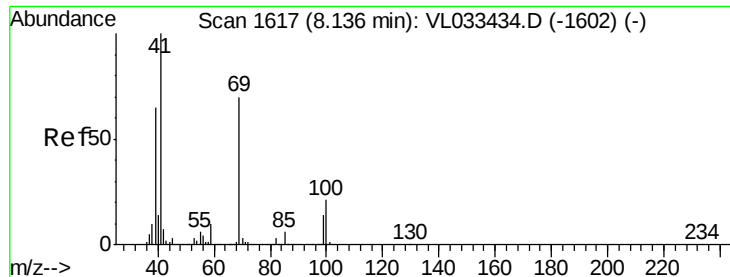
Delta R.T. 0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Tgt Ion:	83	Resp:	1491375
Ion	Ratio	Lower	Upper
83	100		
85	63.7	50.7	76.1
127	8.3	6.6	9.8





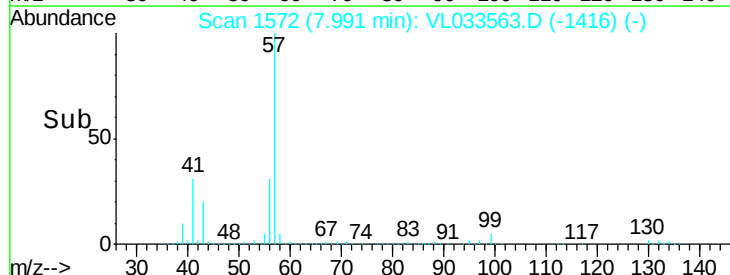
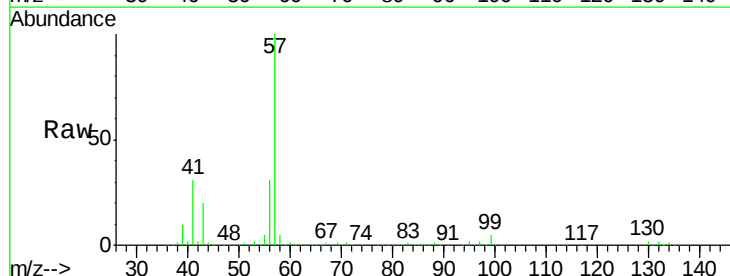
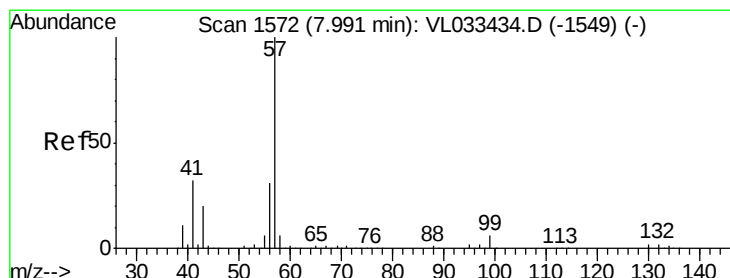
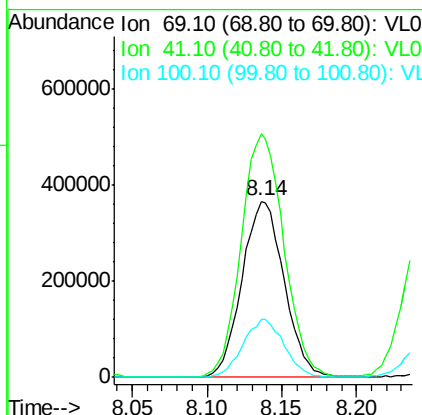
#43
Methvl Methacrylate
Concen: 8.471 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. 0.00 min
Lab File: VL033563.D
Acq: 10 Apr 2019 11:06

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	140.3	116.6	174.8	
100	32.4	24.4	36.6	

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

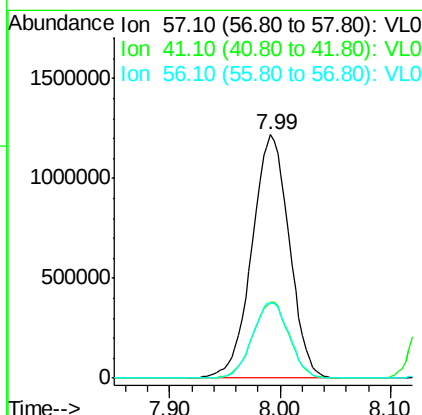
Manual Integrations
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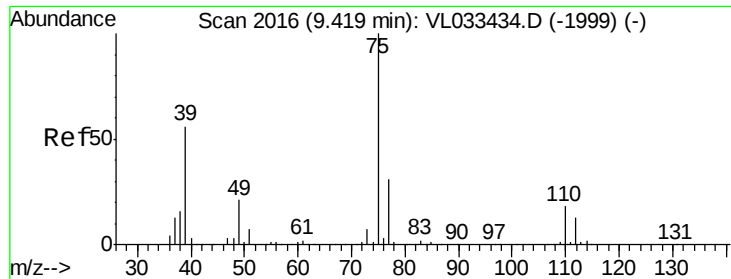
MMDadoda
4/11/2019 1:00:55 PM



#44
2,2,4-Trimethylpentane
Concen: 7.804 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VL033563.D
Acq: 10 Apr 2019 11:06

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	30.7	26.0	39.0	
56	30.7	24.6	37.0	





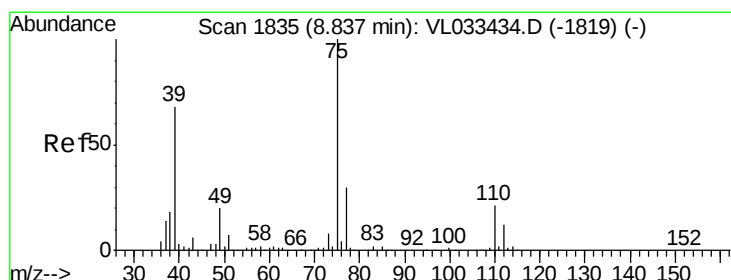
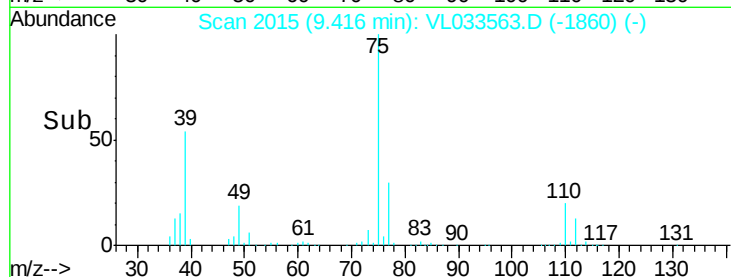
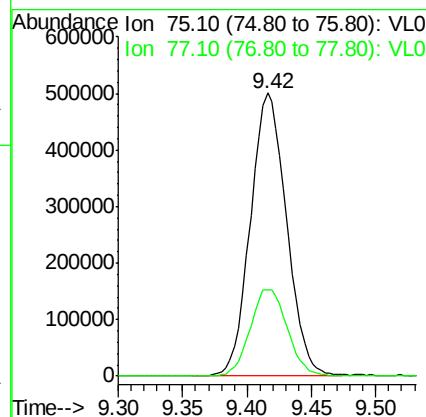
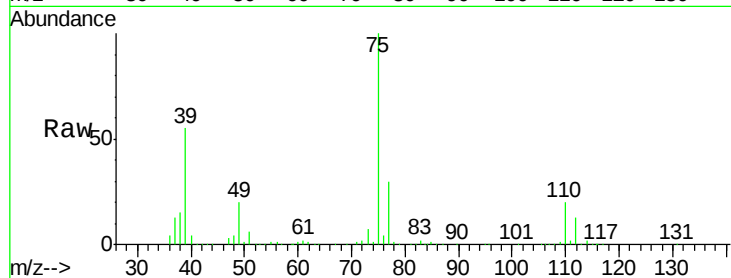
#45
t-1,3-Dichloropropene
Concen: 9.380 ppbv
RT: 9.42 min Scan# 2015
Delta R.T. -0.00 min
Lab File: VL033563.D
Acq: 10 Apr 2019 11:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.4	24.5	36.7

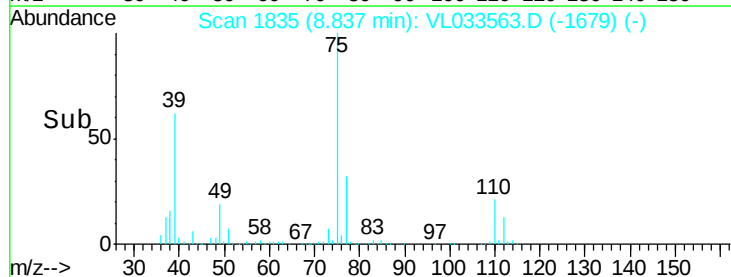
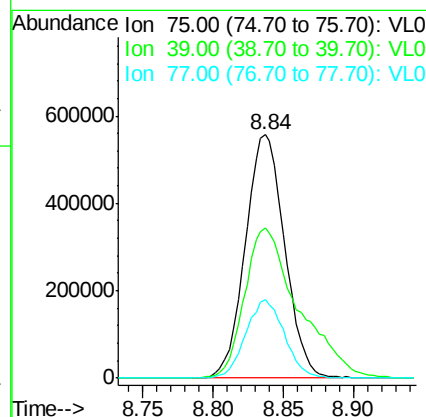
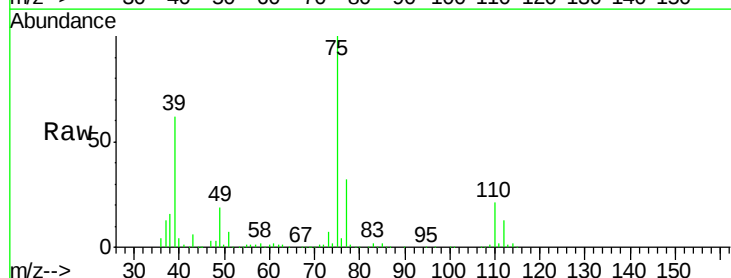
Manual Integrations
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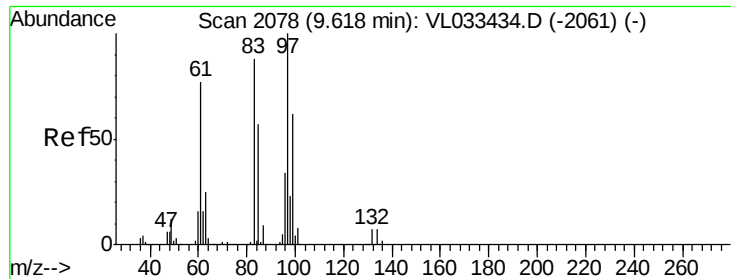
MMDadoda
4/11/2019 1:00:55 PM



#46
cis-1,3-Dichloropropene
Concen: 8.934 ppbv
RT: 8.84 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VL033563.D
Acq: 10 Apr 2019 11:06

Tgt Ion	Ratio	Lower	Upper
75	100		
39	61.8	54.1	81.1
77	32.2	23.9	35.9





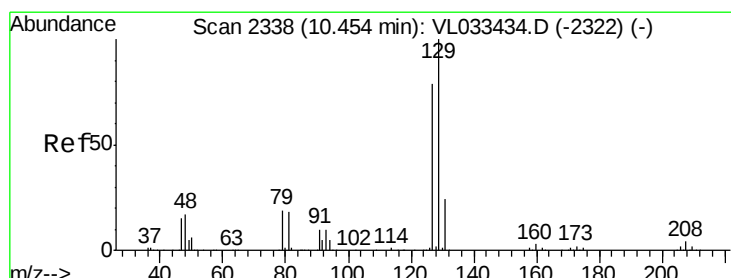
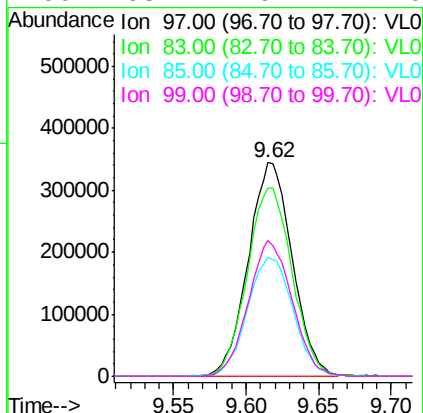
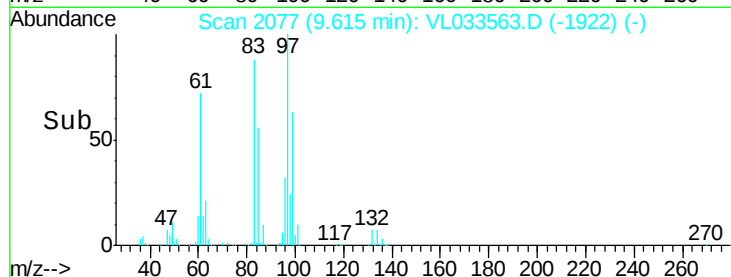
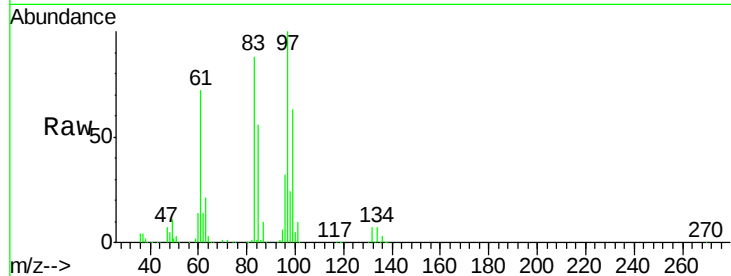
#47
 1,1,2-Trichloroethane
 Concen: 7.783 ppbv
 RT: 9.62 min Scan# 2077
 Delta R.T. -0.00 min
 Lab File: VL033563.D
 Acq: 10 Apr 2019 11:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	88.3	70.5	105.7	
85	55.4	45.6	68.4	
99	63.2	49.4	74.0	

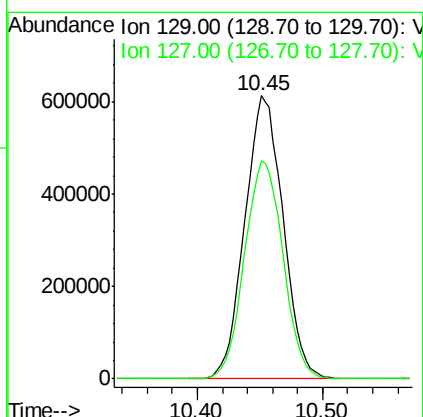
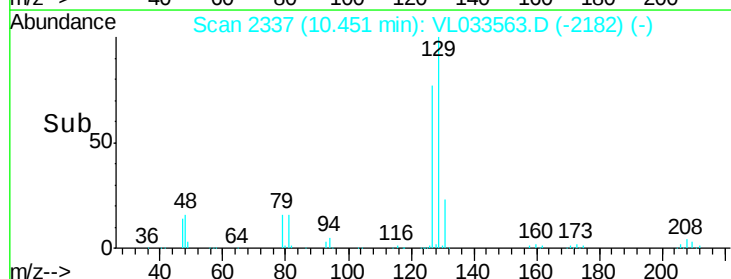
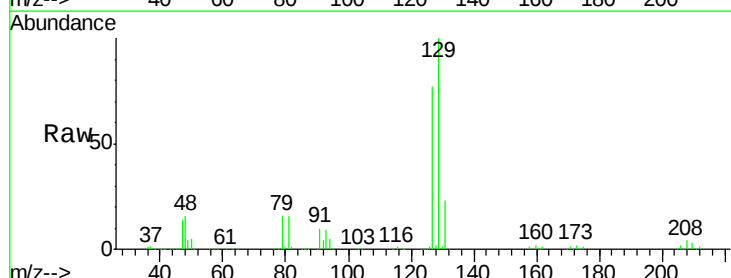
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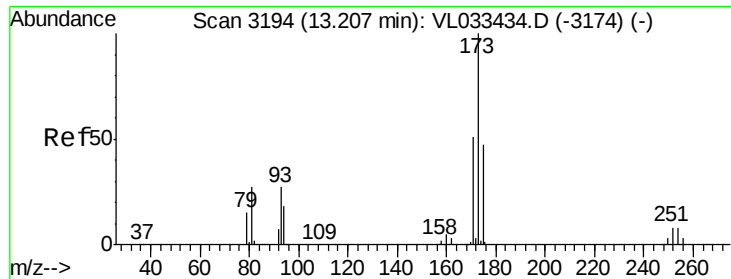
MMDadoda
 4/11/2019 1:00:55 PM



#48
 Dibromochloromethane
 Concen: 8.288 ppbv
 RT: 10.45 min Scan# 2337
 Delta R.T. -0.00 min
 Lab File: VL033563.D
 Acq: 10 Apr 2019 11:06

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	77.6	39.1	117.2	





#49

Bromoform

Concen: 7.968 ppbv

RT: 13.20 min Scan# 3193

Delta R.T. -0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:173 Resp: 1194929

Ion Ratio Lower Upper

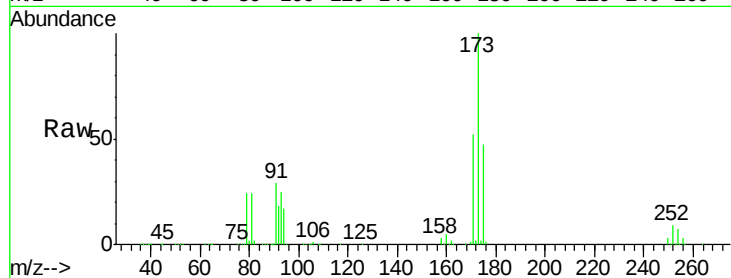
173 100

175 48.4 39.3 58.9

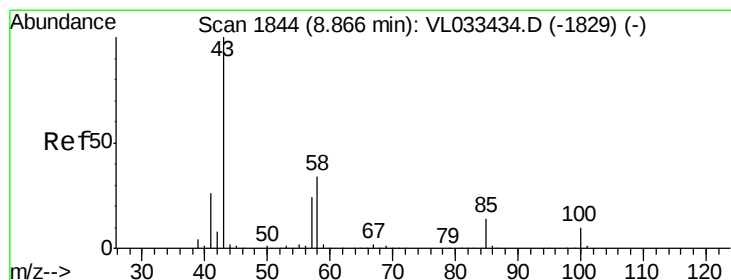
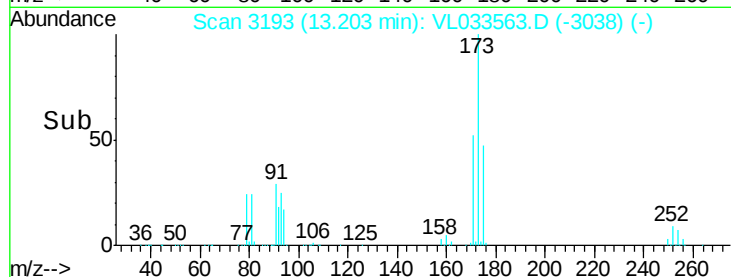
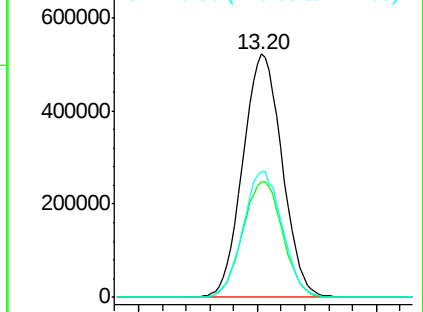
171 51.8 41.2 61.8

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4/11/2019 1:00:55 PM



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: 7.652 ppbv

RT: 8.87 min Scan# 1845

Delta R.T. 0.00 min

Lab File: VL033563.D

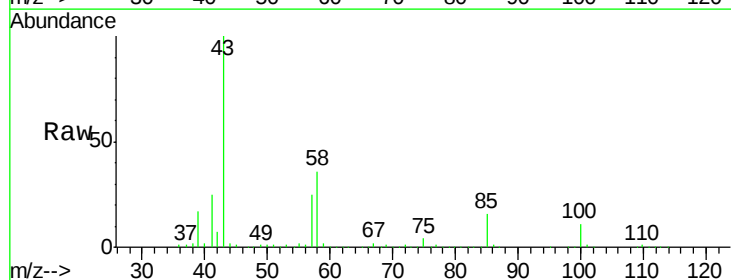
Acq: 10 Apr 2019 11:06

Tgt Ion: 43 Resp: 1678707

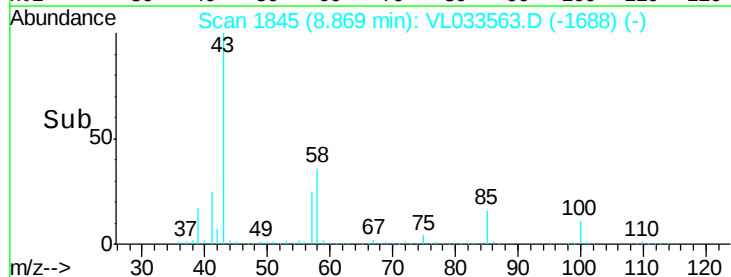
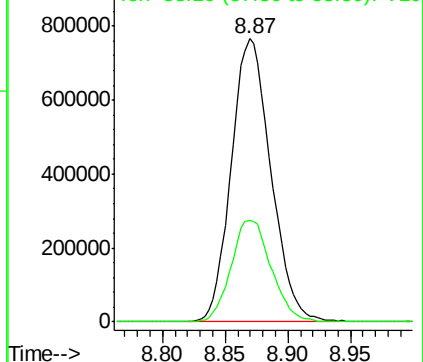
Ion Ratio Lower Upper

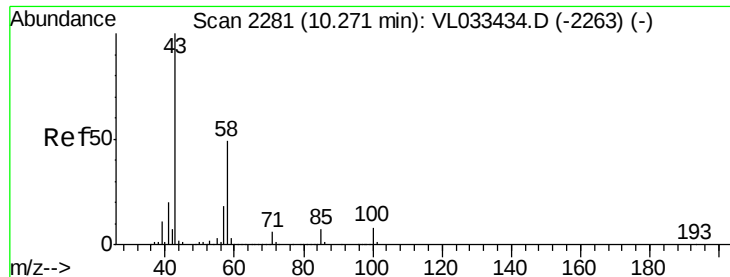
43 100

58 36.5 28.0 42.0



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





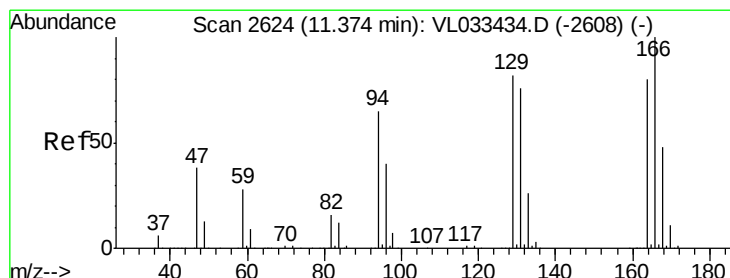
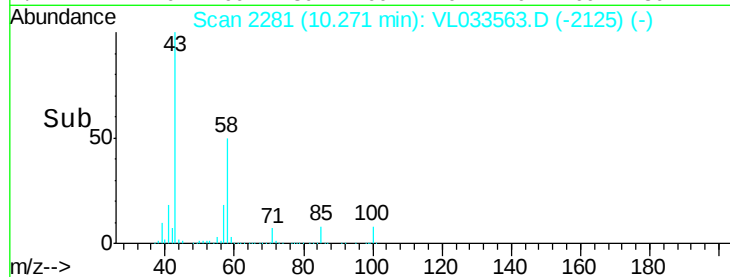
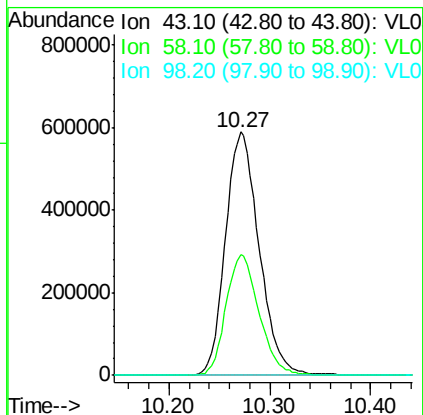
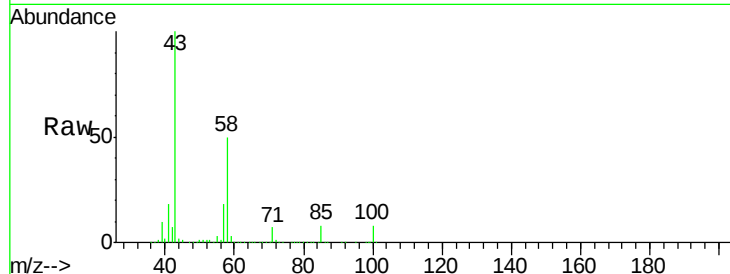
#51
2-Hexanone
Concen: 8.368 ppbv
RT: 10.27 min Scan# 2281
Delta R.T. 0.00 min
Lab File: VL033563.D
Acq: 10 Apr 2019 11:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 1369297
Ion Ratio Lower Upper
43 100
58 48.9 38.2 57.2
98 0.1 0.2 0.2#

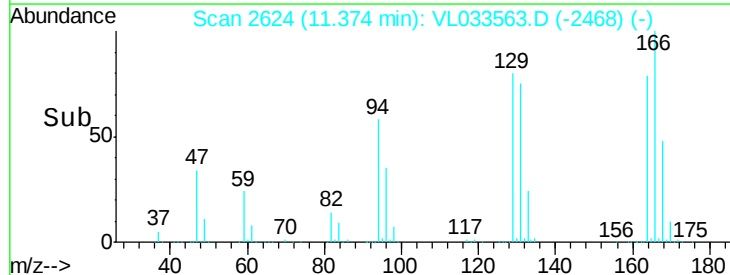
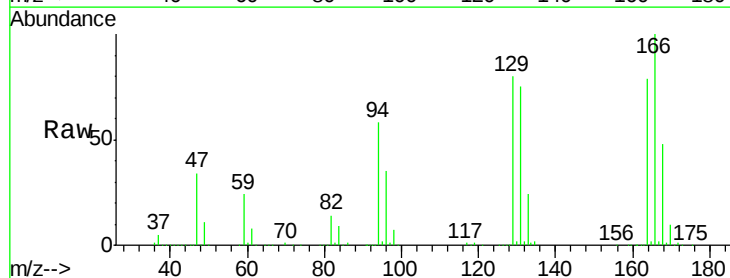
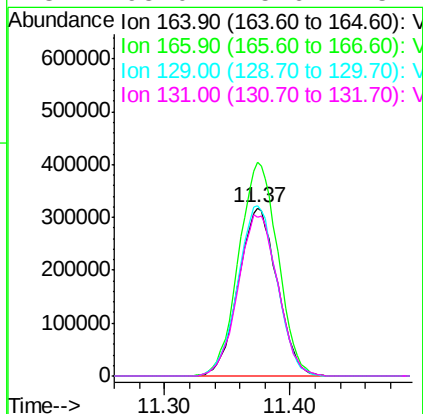
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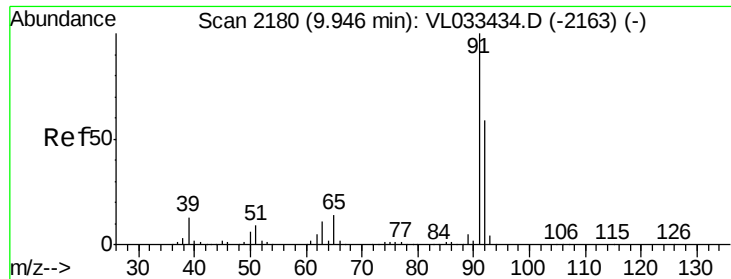
MMDadoda
4/11/2019 1:00:55 PM



#52
Tetrachloroethene
Concen: 8.634 ppbv
RT: 11.37 min Scan# 2624
Delta R.T. 0.00 min
Lab File: VL033563.D
Acq: 10 Apr 2019 11:06

Tgt Ion: 164 Resp: 681558
Ion Ratio Lower Upper
164 100
166 127.3 99.5 149.3
129 101.6 81.4 122.2
131 95.0 75.6 113.4





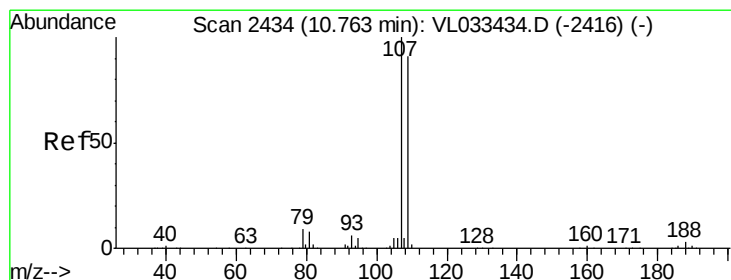
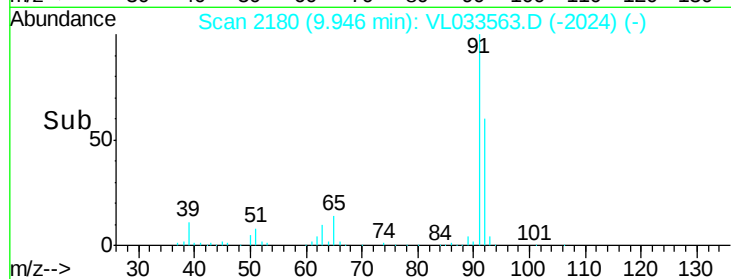
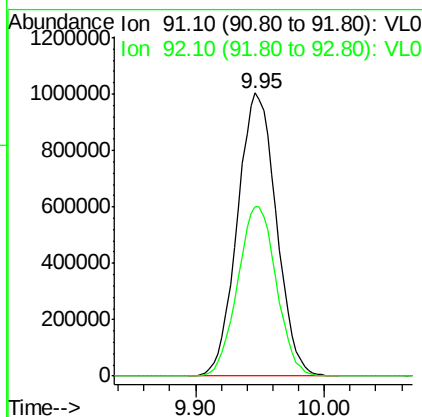
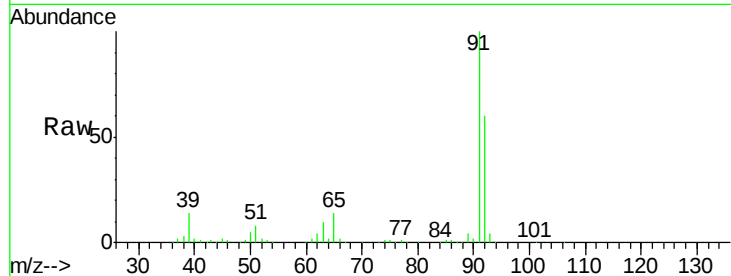
#53
Toluene
Concen: 8.677 ppbv
RT: 9.95 min Scan# 2180
Delta R.T. 0.00 min
Lab File: VL033563.D
Acq: 10 Apr 2019 11:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 2109531
Ion Ratio Lower Upper
91 100
92 59.7 47.4 71.0

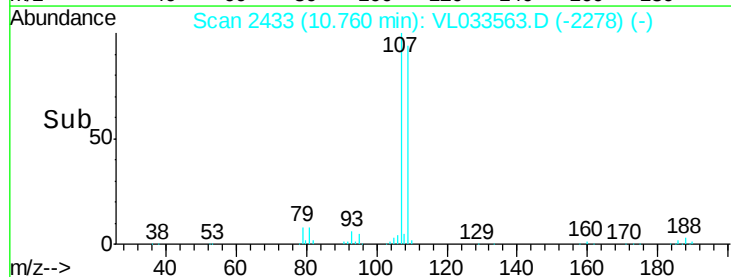
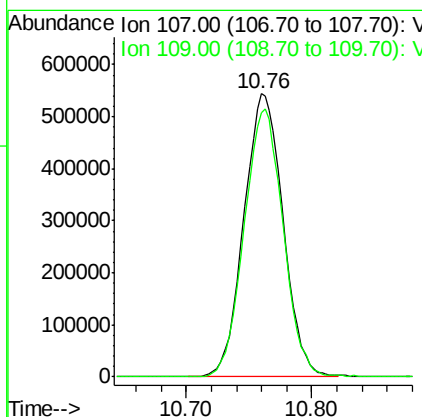
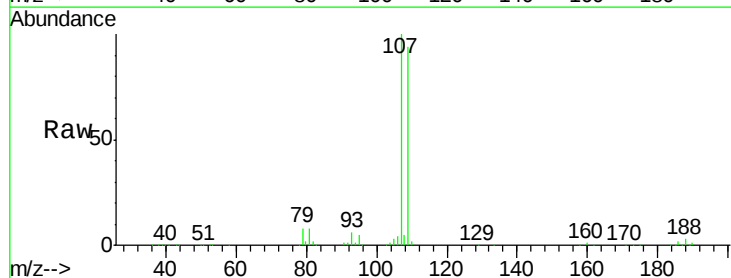
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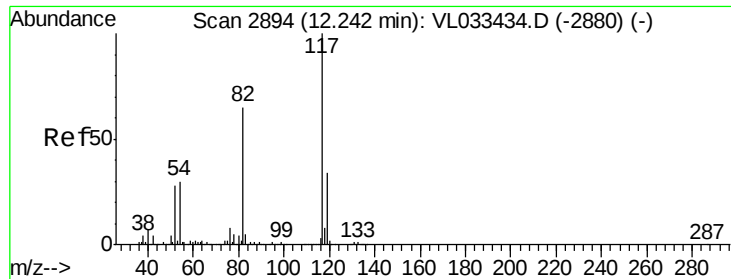
MMDadoda
4/11/2019 1:00:55 PM



#54
1,2-Dibromoethane
Concen: 8.105 ppbv
RT: 10.76 min Scan# 2433
Delta R.T. -0.00 min
Lab File: VL033563.D
Acq: 10 Apr 2019 11:06

Tgt Ion:107 Resp: 1179853
Ion Ratio Lower Upper
107 100
109 93.5 72.7 109.1





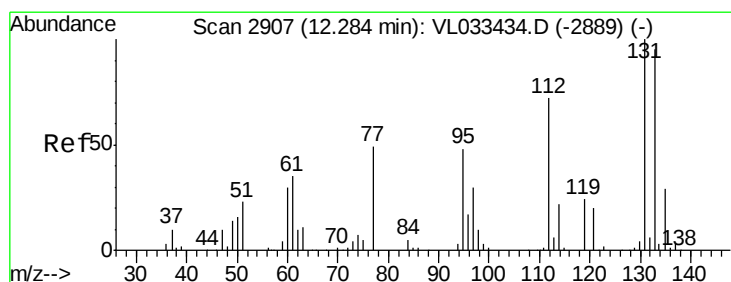
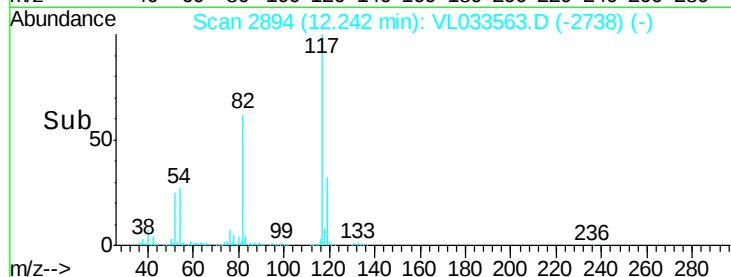
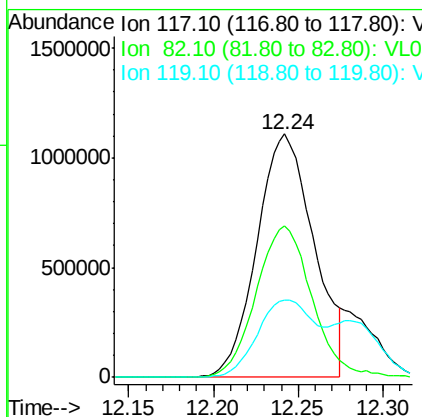
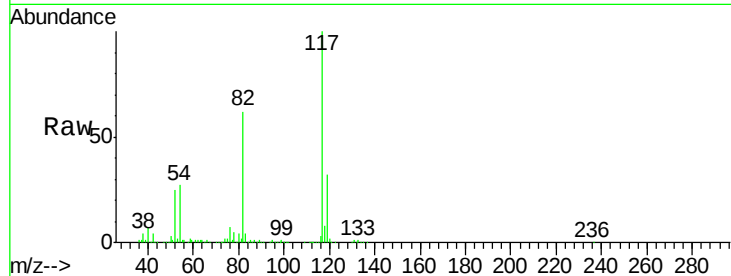
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2894
Delta R.T. 0.00 min
Lab File: VL033563.D
Acq: 10 Apr 2019 11:06

Instrument :
MSVOA_L
ClientSampled :
VSTDCCC010

Tot Ion:117 Resp: 2580004
Ion Ratio Lower Upper
117 100
82 61.4 51.5 77.3
119 52.3 25.5 38.3#

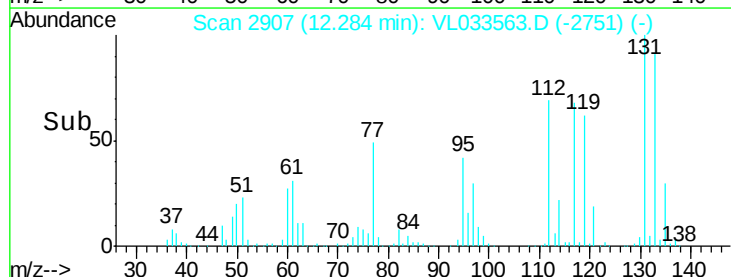
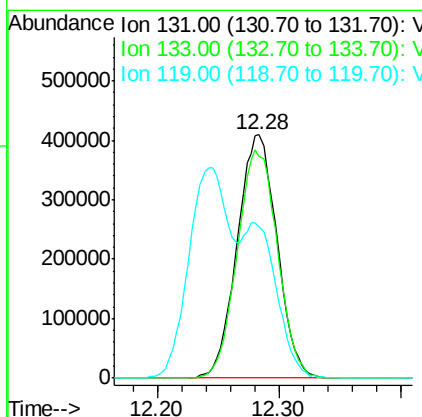
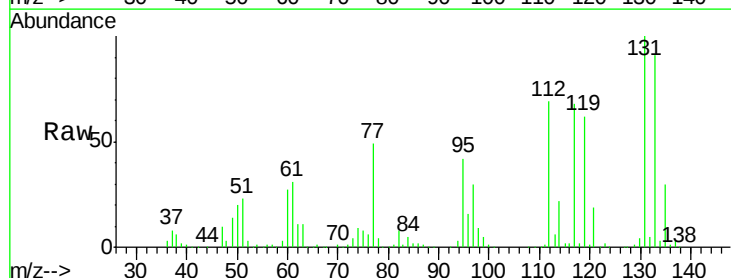
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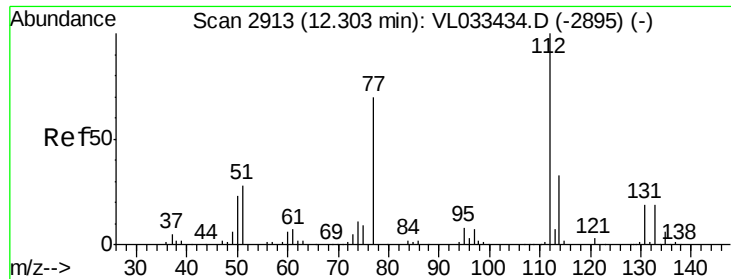
MMDadoda
4/11/2019 1:00:55 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 7.785 ppbv
RT: 12.28 min Scan# 2907
Delta R.T. 0.00 min
Lab File: VL033563.D
Acq: 10 Apr 2019 11:06

Tgt Ion:131 Resp: 920583
Ion Ratio Lower Upper
131 100
133 94.9 76.2 114.4
119 146.6 45.0 67.6#





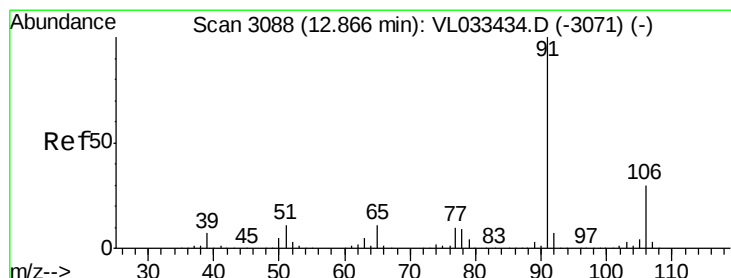
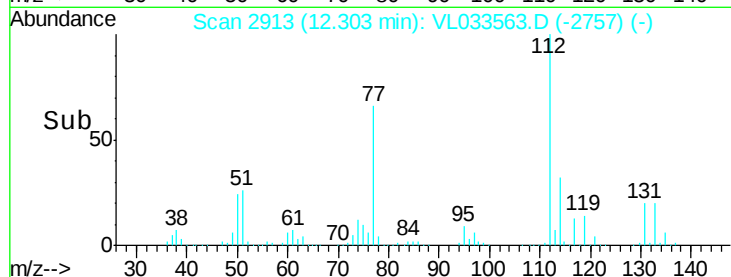
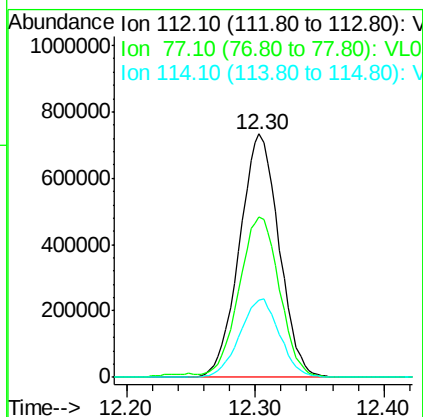
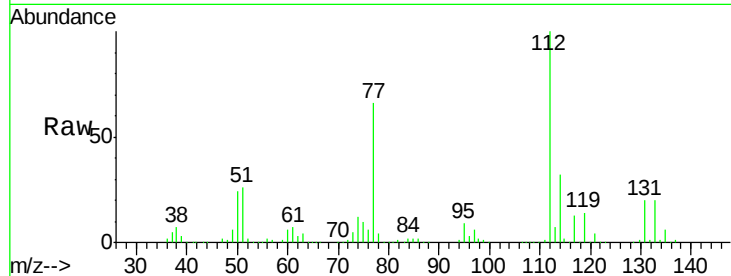
#57
Chlorobenzene
Concen: 7.803 ppbv
RT: 12.30 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VL033563.D
Acq: 10 Apr 2019 11:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 112 Resp: 1563203
Ion Ratio Lower Upper
112 100
77 65.8 57.3 85.9
114 31.5 29.8 36.4

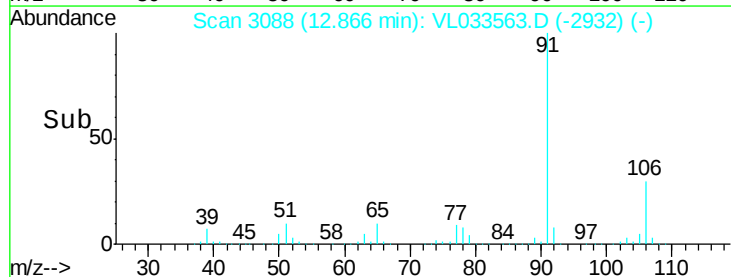
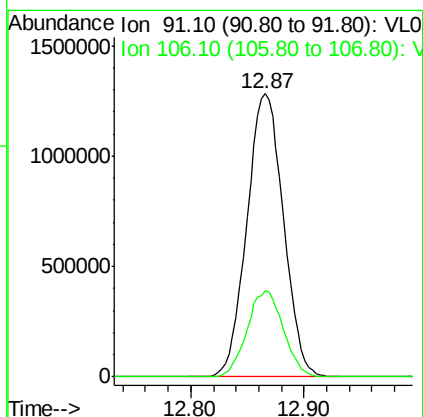
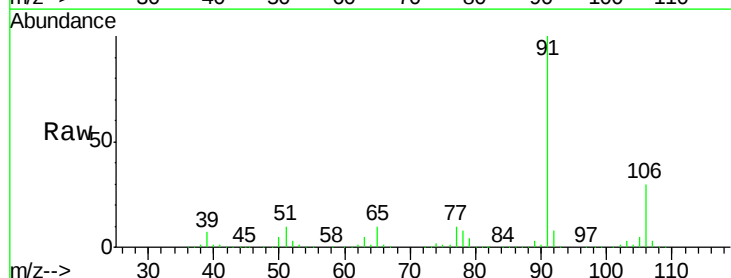
Manual Integrations
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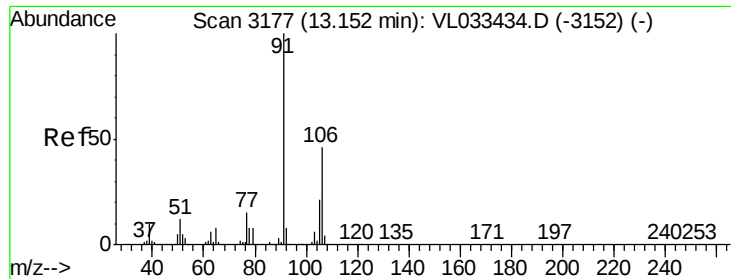
MMDadoda
4/11/2019 1:00:55 PM



#58
Ethyl Benzene
Concen: 8.351 ppbv
RT: 12.87 min Scan# 3088
Delta R.T. 0.00 min
Lab File: VL033563.D
Acq: 10 Apr 2019 11:06

Tgt Ion: 91 Resp: 2877345
Ion Ratio Lower Upper
91 100
106 30.5 23.8 35.6





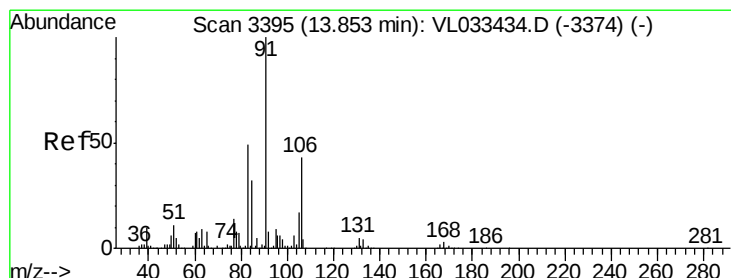
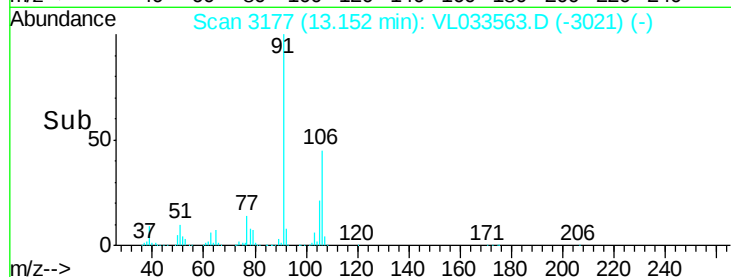
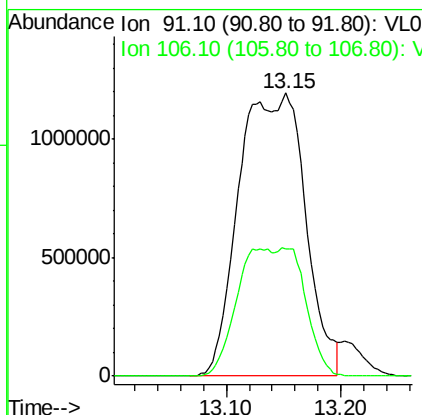
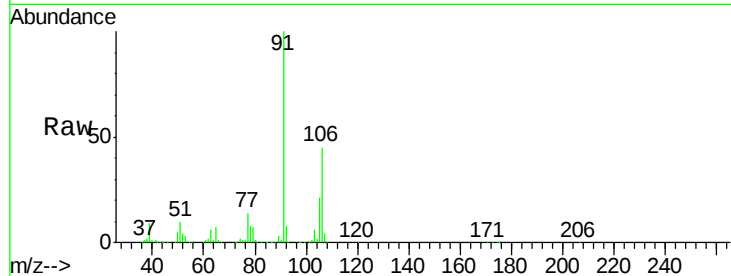
#59
m/p-Xylene
Concen: 15.592 ppbv m
RT: 13.15 min Scan# 3177
Delta R.T. 0.00 min
Lab File: VL033563.D
Acq: 10 Apr 2019 11:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 4798406
Ion Ratio Lower Upper
91 100
106 45.6 0.0 0.0#

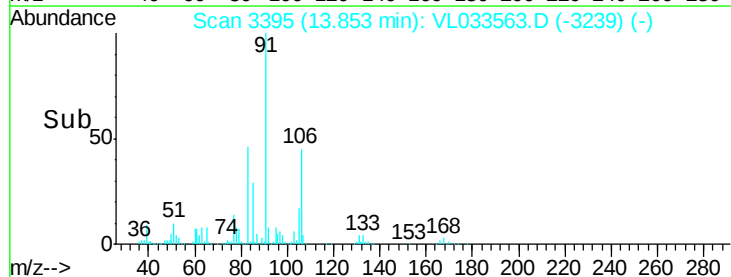
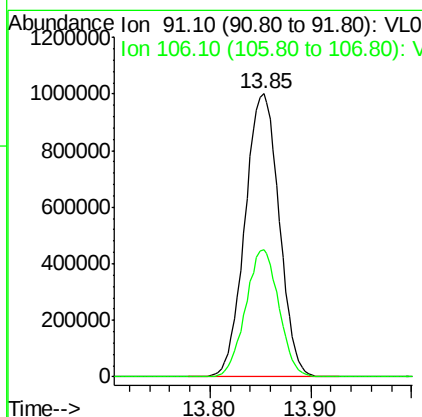
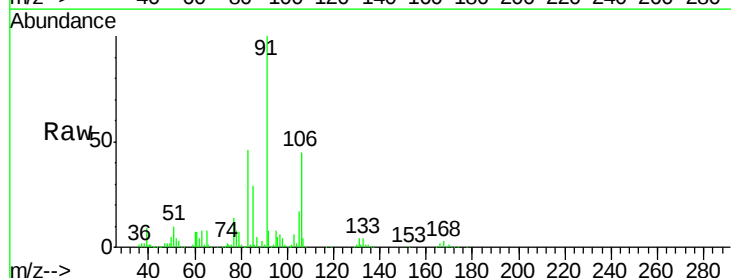
Manual Integrations
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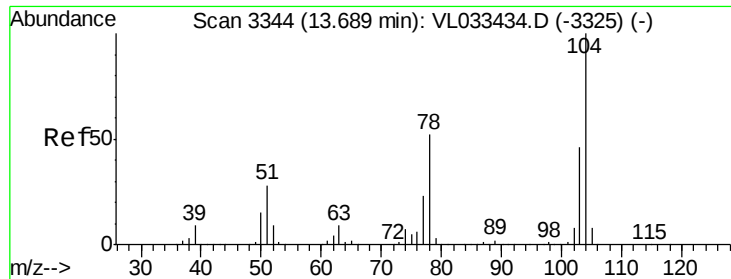
MMDadoda
4/11/2019 1:00:55 PM



#60
o-Xylene
Concen: 7.868 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. 0.00 min
Lab File: VL033563.D
Acq: 10 Apr 2019 11:06

Tgt Ion: 91 Resp: 2341359
Ion Ratio Lower Upper
91 100
106 43.8 21.4 64.3





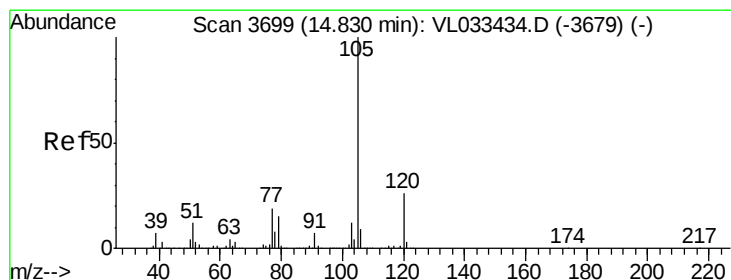
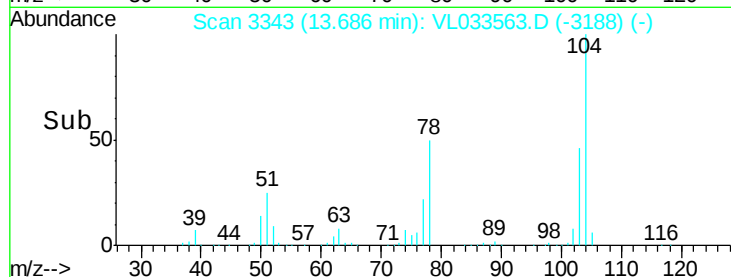
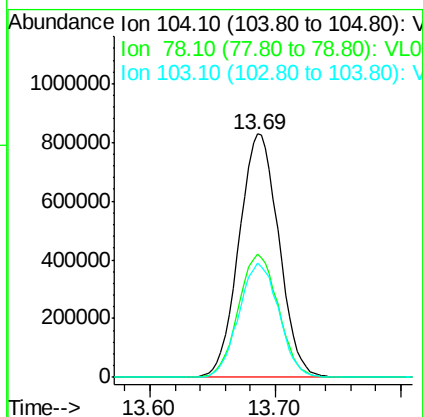
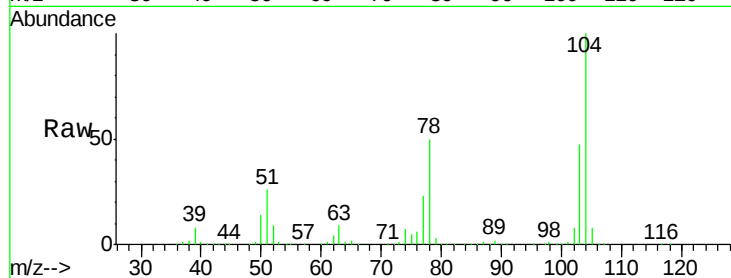
#61
Stvrene
Concen: 8.921 ppbv
RT: 13.69 min Scan# 3343
Delta R.T. -0.00 min
Lab File: VL033563.D
Acq: 10 Apr 2019 11:06

Instrument :
MSVOA_L
ClientSampled :
VSTDCCC010

Tot Ion:104 Resp: 1822119
Ion Ratio Lower Upper
104 100
78 50.9 43.2 64.8
103 47.2 37.8 56.8

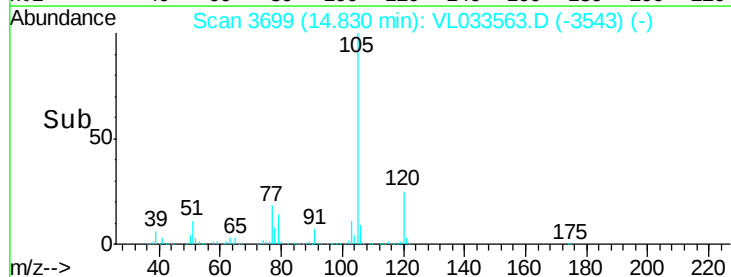
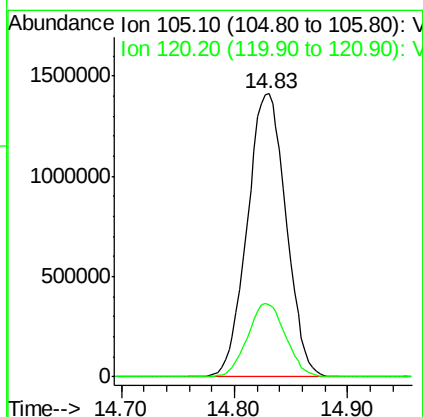
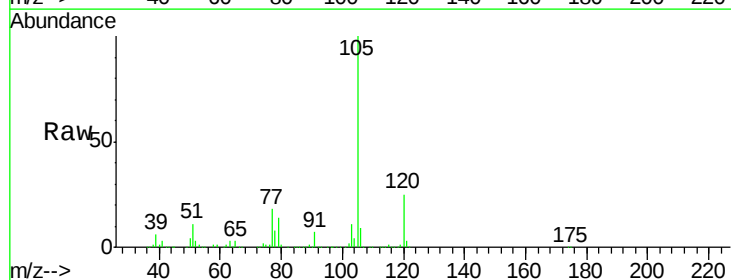
Manual Integrations
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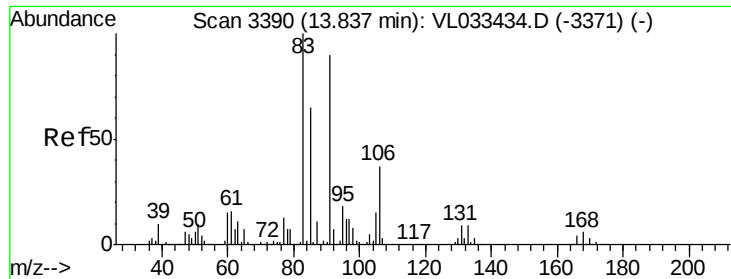
MMDadoda
4/11/2019 1:00:55 PM



#62
Isopropylbenzene
Concen: 7.984 ppbv
RT: 14.83 min Scan# 3699
Delta R.T. 0.00 min
Lab File: VL033563.D
Acq: 10 Apr 2019 11:06

Tgt Ion:105 Resp: 3364660
Ion Ratio Lower Upper
105 100
120 25.5 20.2 30.2





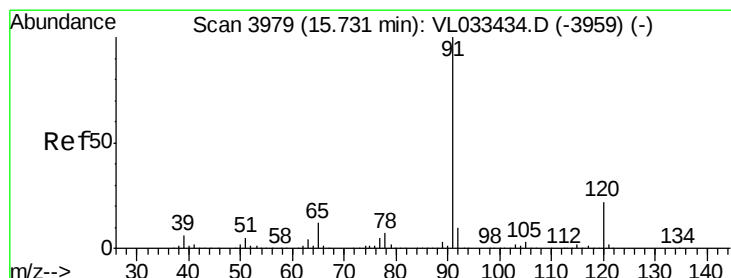
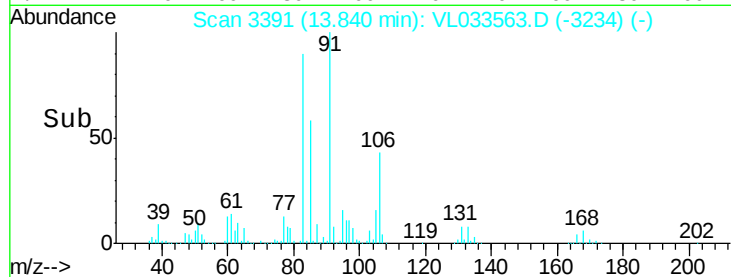
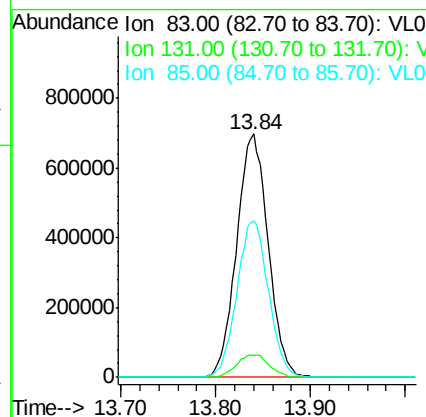
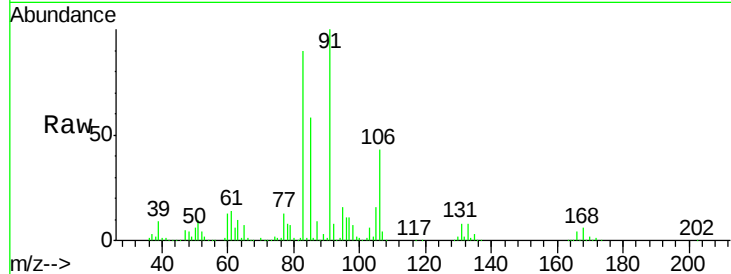
#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.386 ppbv
 RT: 13.84 min Scan# 3391
 Delta R.T. 0.00 min
 Lab File: VL033563.D
 Acq: 10 Apr 2019 11:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 83 Resp: 1618499
 Ion Ratio Lower Upper
 83 100
 131 9.6 4.7 14.0
 85 64.5 32.7 98.1

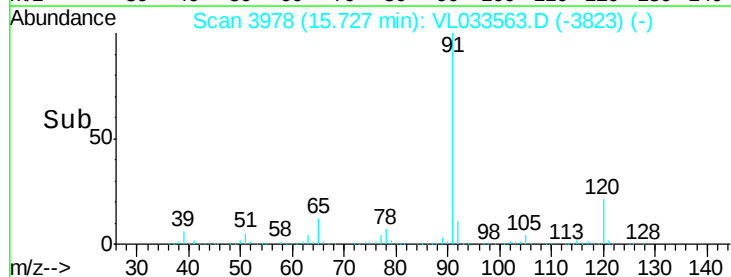
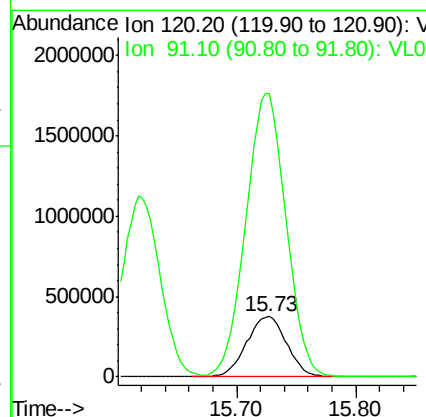
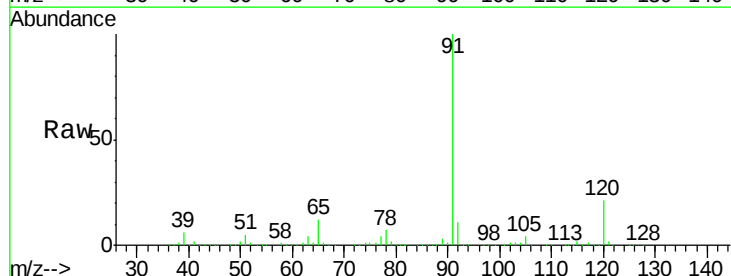
Manual Integrations
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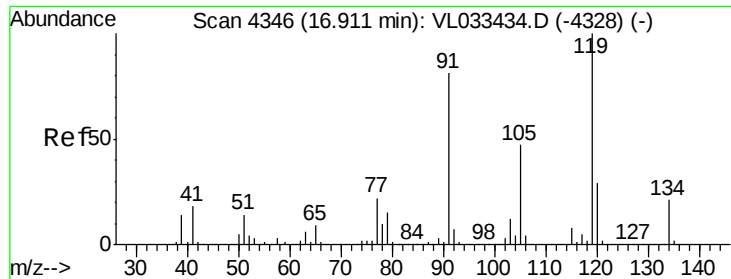
MMDadoda
 4/11/2019 1:00:55 PM



#64
 n-propylbenzene
 Concen: 8.212 ppbv
 RT: 15.73 min Scan# 3978
 Delta R.T. -0.00 min
 Lab File: VL033563.D
 Acq: 10 Apr 2019 11:06

Tgt Ion:120 Resp: 878166
 Ion Ratio Lower Upper
 120 100
 91 469.9 387.4 581.2





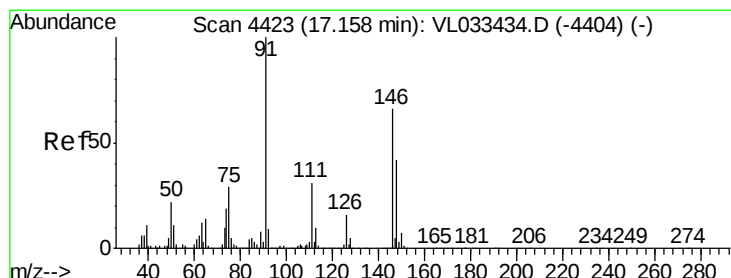
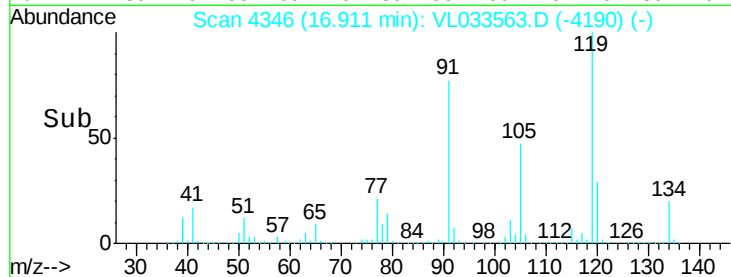
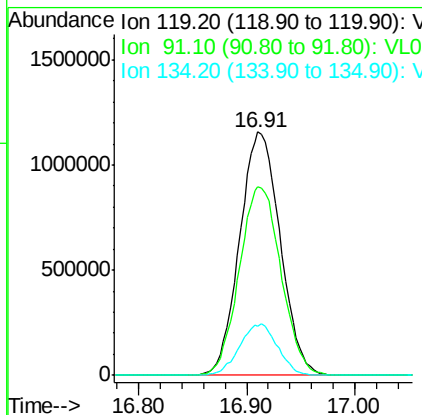
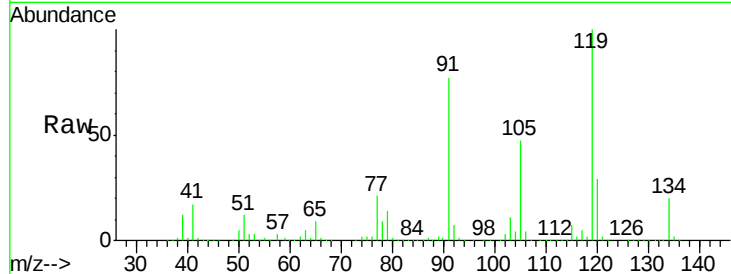
#65
tert-Butylbenzene
Concen: 8.148 ppbv
RT: 16.91 min Scan# 4346
Delta R.T. 0.00 min
Lab File: VL033563.D
Acq: 10 Apr 2019 11:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:119 Resp: 3025623
Ion Ratio Lower Upper
119 100
91 79.7 66.4 99.6
134 19.9 15.5 23.3

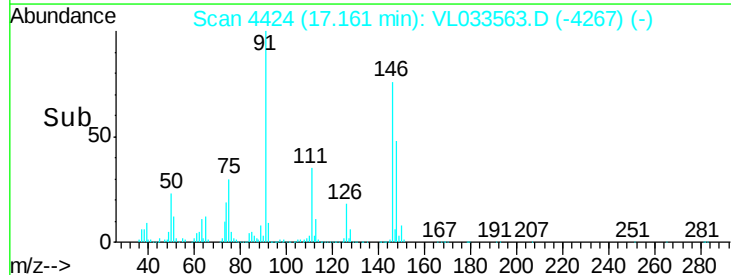
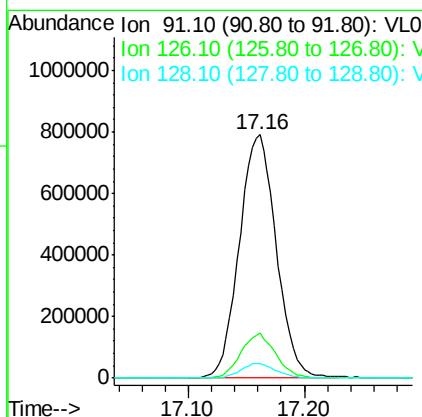
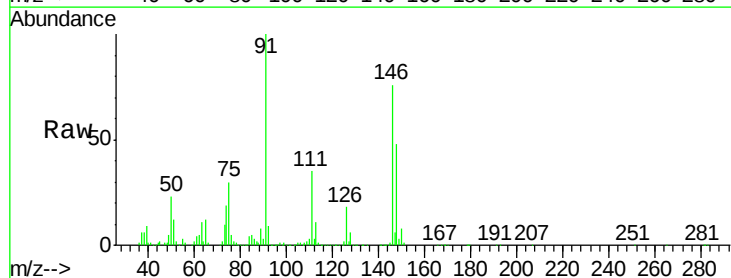
Manual Integrations
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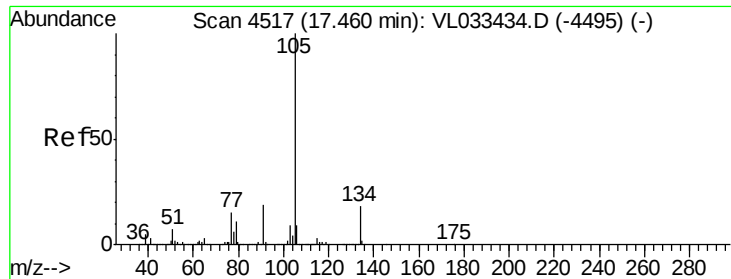
MMDadoda
4/11/2019 1:00:55 PM



#66
Benzyl Chloride
Concen: 10.137 ppbv
RT: 17.16 min Scan# 4424
Delta R.T. 0.00 min
Lab File: VL033563.D
Acq: 10 Apr 2019 11:06

Tgt Ion: 91 Resp: 1750513
Ion Ratio Lower Upper
91 100
126 17.3 13.0 19.6
128 5.7 4.2 6.2





#67

sec-Butylbenzene

Concen: 7.986 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. 0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 105 Resp: 4217697

Ion Ratio Lower Upper

105 100

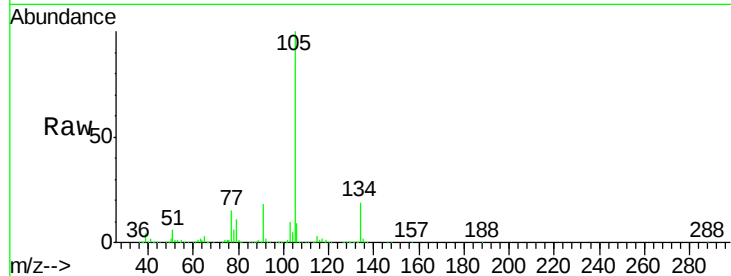
134 18.2 14.6 21.8

Manual Integrations

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MMDadoda

4/11/2019 1:00:55 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

2000000

1500000

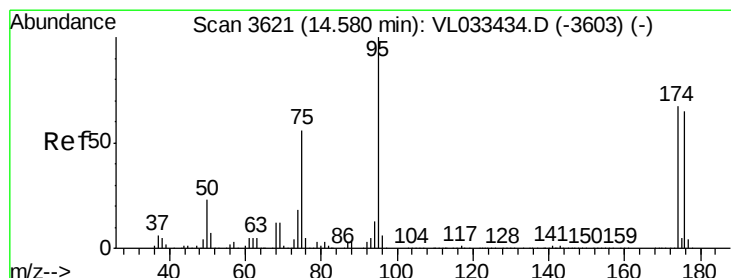
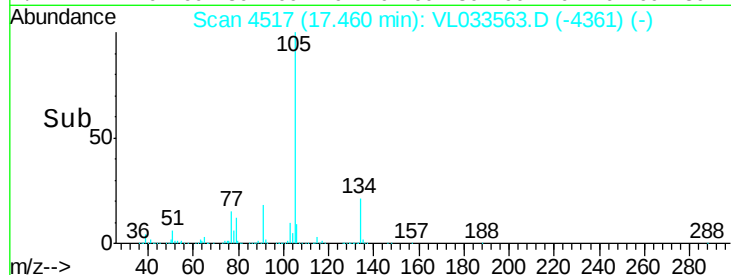
1000000

500000

0

17.40 17.50

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.475 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

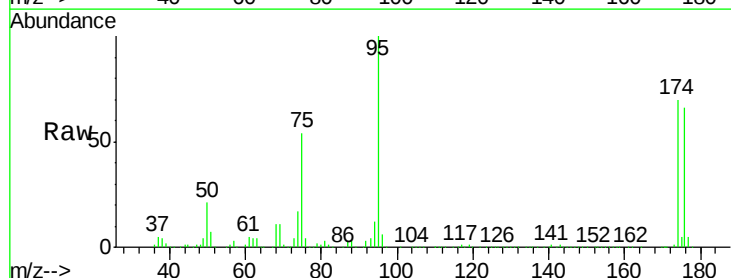
Tgt Ion: 95 Resp: 1916350

Ion Ratio Lower Upper

95 100

174 69.2 52.9 79.3

175 5.1 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): V

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

1000000

800000

600000

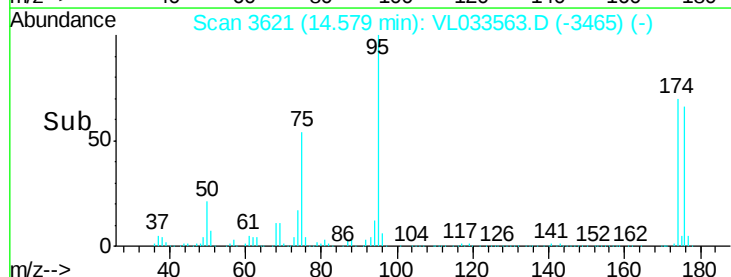
400000

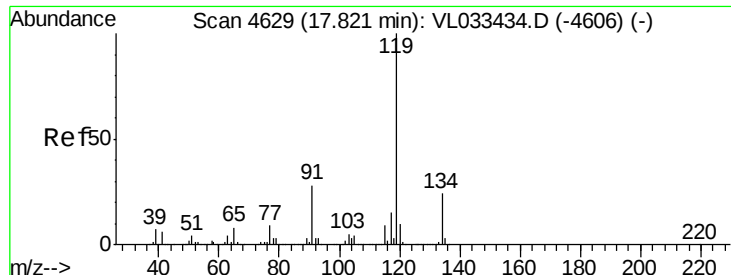
200000

0

14.50 14.60

Time-->





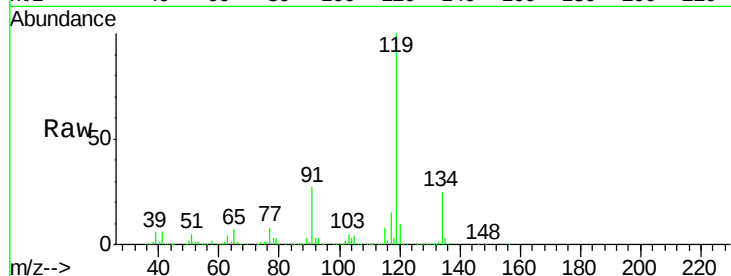
#69
p-Isopropyltoluene
Concen: 8.173 ppbv
RT: 17.82 min Scan# 4629
Delta R.T. 0.00 min
Lab File: VL033563.D
Acq: 10 Apr 2019 11:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.5	19.9	29.9
91	28.3	23.4	35.0

Manual Integrations
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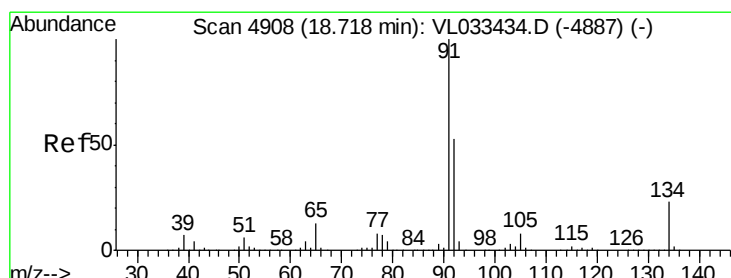
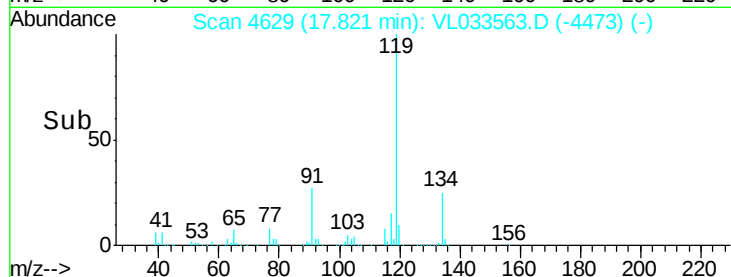
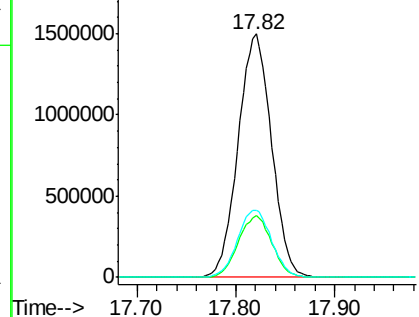


Abundance

Ion 119.10 (118.80 to 119.80): V

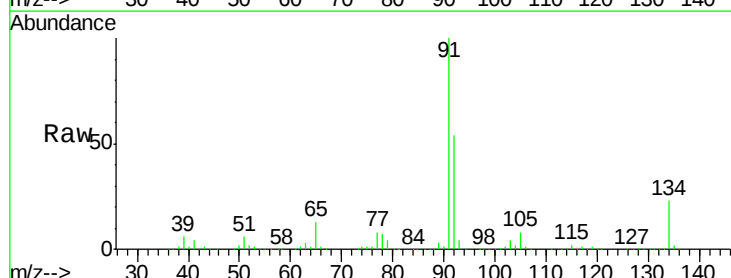
Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70
n-Butylbenzene
Concen: 8.039 ppbv
RT: 18.72 min Scan# 4908
Delta R.T. -0.00 min
Lab File: VL033563.D
Acq: 10 Apr 2019 11:06

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.0	42.6	64.0
134	22.5	17.5	26.3

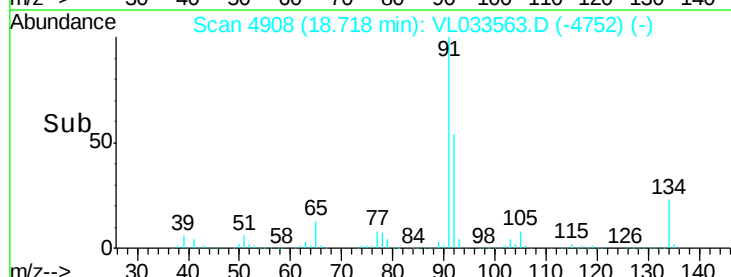
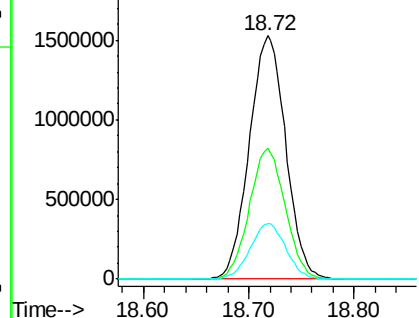


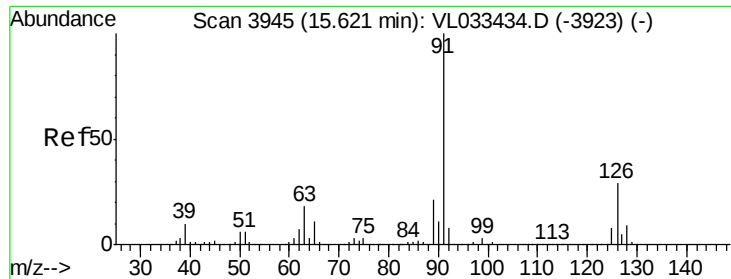
Abundance

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: 8.055 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. -0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2580990

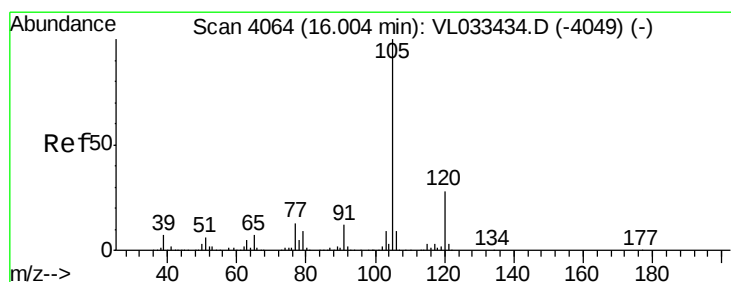
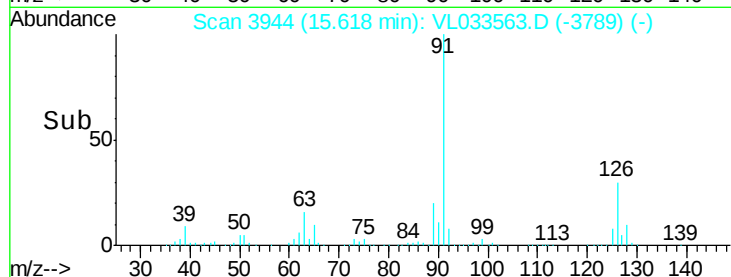
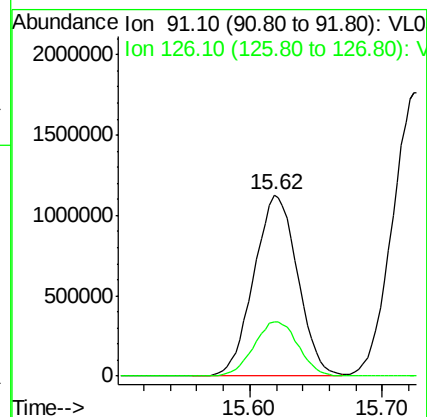
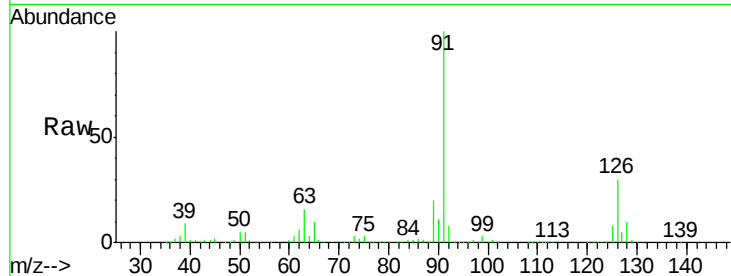
Ion Ratio Lower Upper

91 100

126 30.5 11.7 46.9

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#72

4-Ethyltoluene

Concen: 8.464 ppbv

RT: 16.00 min Scan# 4064

Delta R.T. -0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Tgt Ion: 105 Resp: 2831271

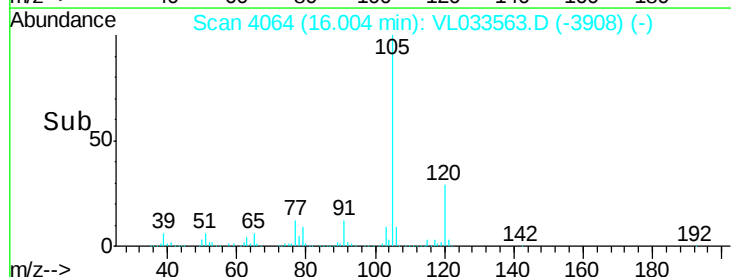
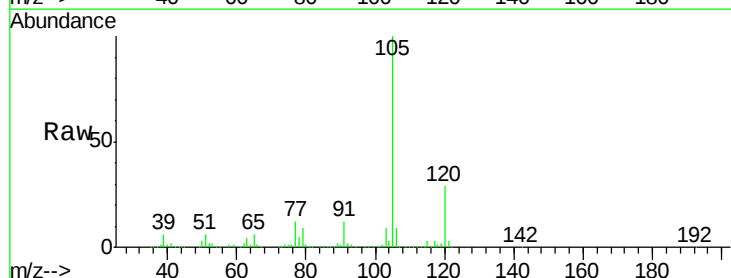
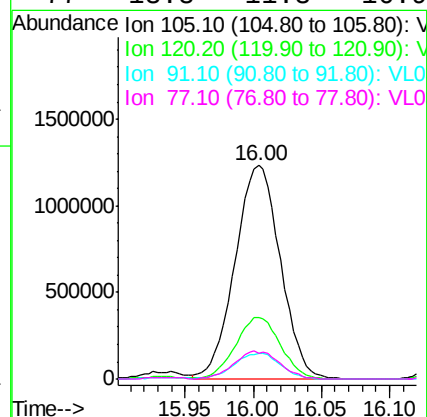
Ion Ratio Lower Upper

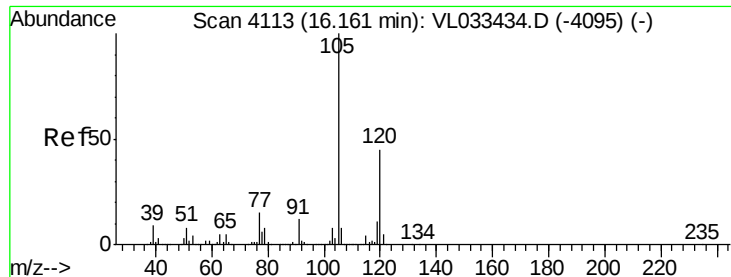
105 100

120 29.1 23.2 34.8

91 12.3 10.4 15.6

77 13.8 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 8.406 ppbv

RT: 16.16 min Scan# 4113

Delta R.T. 0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Instrument :

MSVOA_L

ClientSampled :

VSTDCCC010

Tot Ion:105 Resp: 2690958

Ion Ratio Lower Upper

105 100

120 46.2

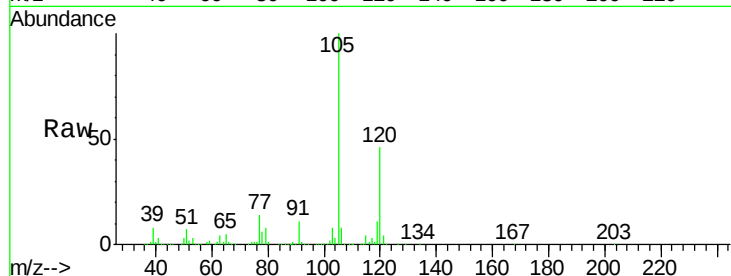
35.7 53.5

Manual Integrations

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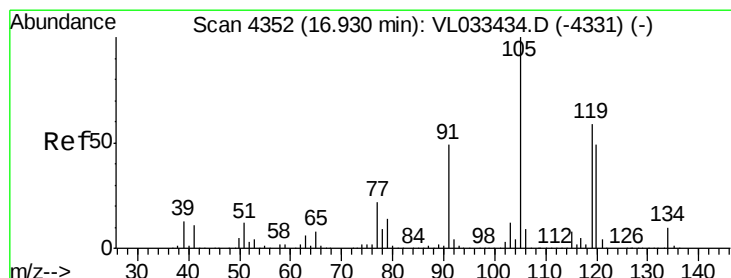
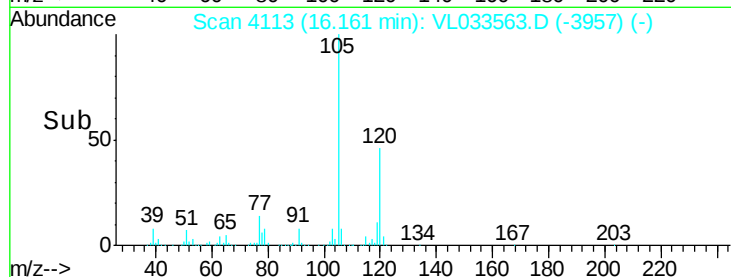
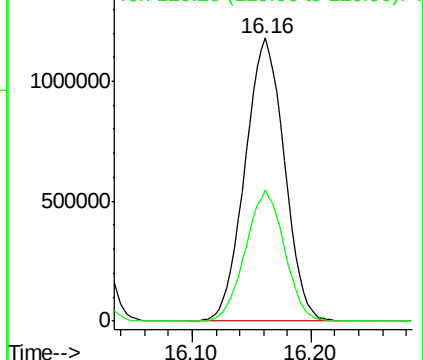
MMDadoda

4/11/2019 1:00:55 PM



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: 8.018 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. 0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Tgt Ion:105 Resp: 2750976

Ion Ratio Lower Upper

105 100

120 46.8

91 46.5

77 21.0

39.0 58.6

40.0 60.0

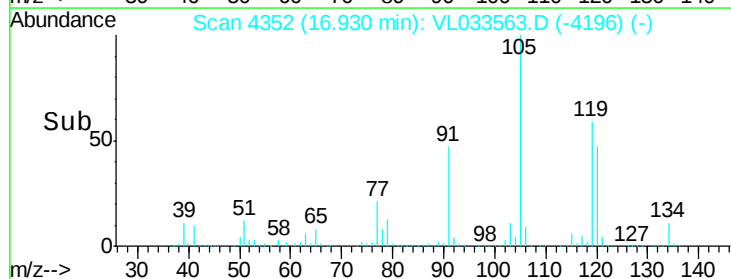
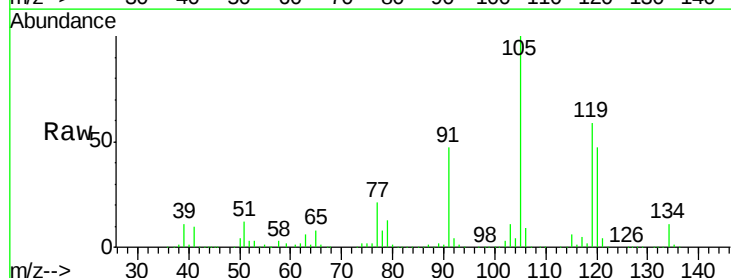
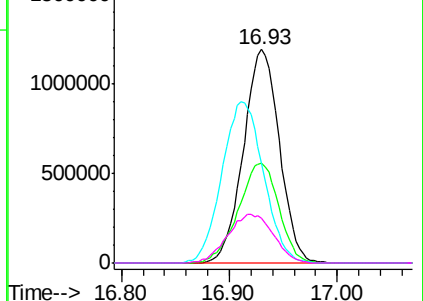
17.5 26.3

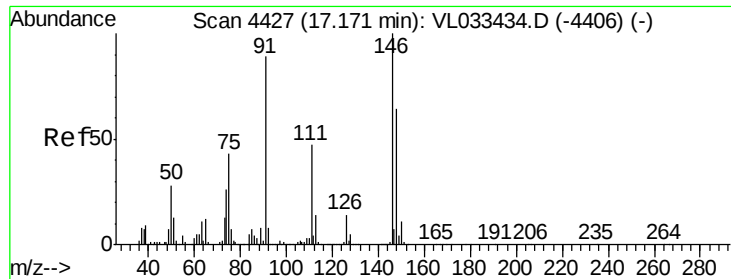
Abundance Ion 105.10 (104.80 to 105.80): V

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: 7.767 ppbv

RT: 17.17 min Scan# 4427

Delta R.T. 0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 1647143

Ion Ratio Lower Upper

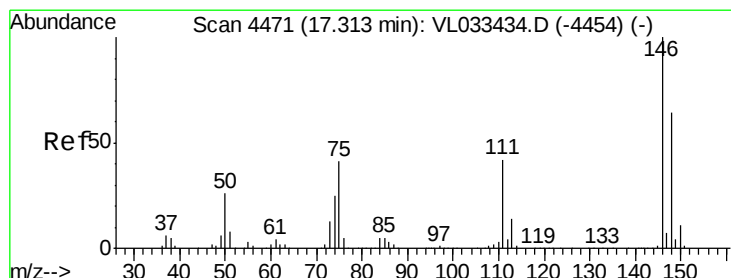
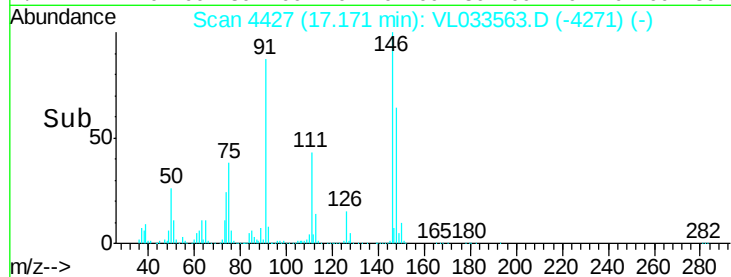
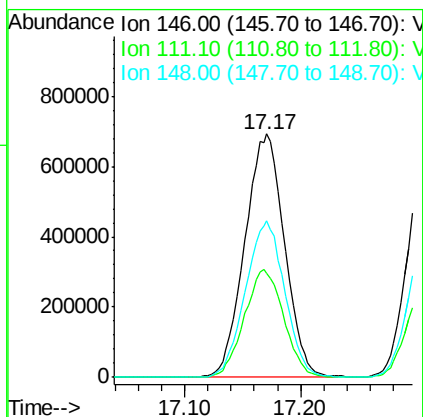
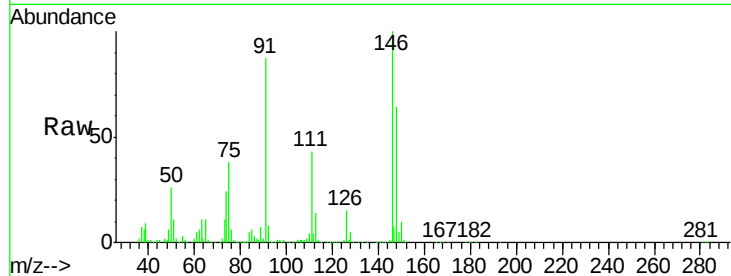
146 100

111 44.1 22.9 68.8

148 63.7 32.0 96.2

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 8.032 ppbv

RT: 17.31 min Scan# 4470

Delta R.T. -0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

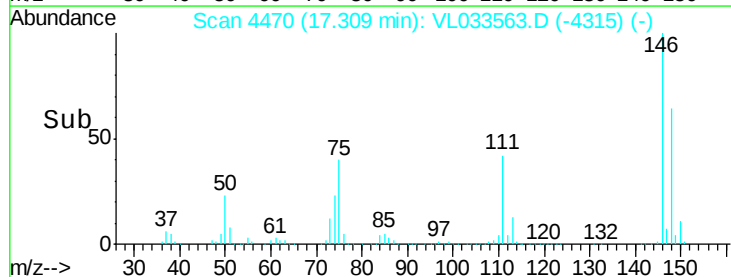
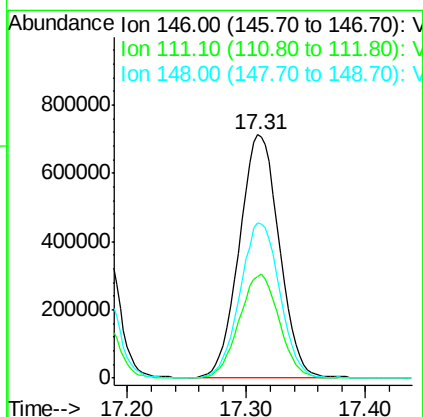
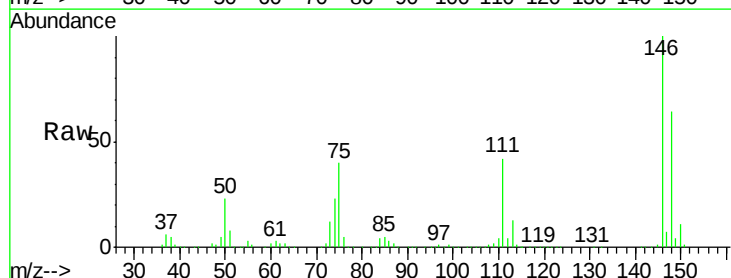
Tgt Ion:146 Resp: 1659510

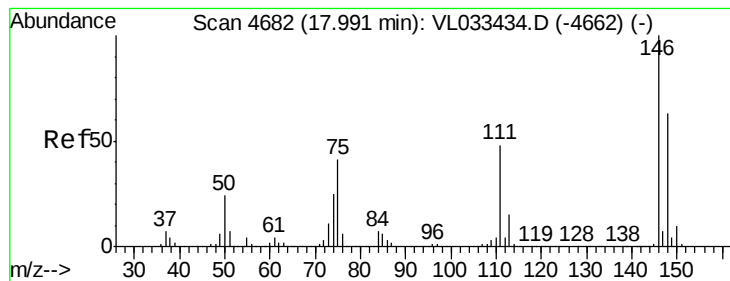
Ion Ratio Lower Upper

146 100

111 42.8 21.7 65.1

148 63.5 32.0 96.2





#77

1,2-Dichlorobenzene

Concen: 7.995 ppbv

RT: 17.99 min Scan# 4682

Delta R.T. 0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 1608658

Ion Ratio Lower Upper

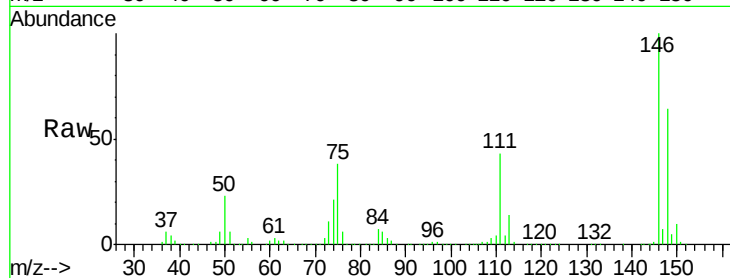
146 100

111 45.4 23.5 70.5

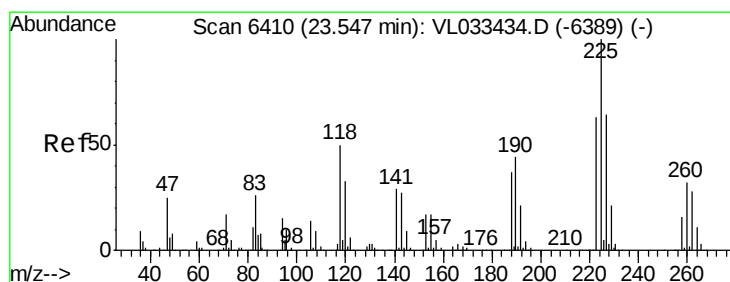
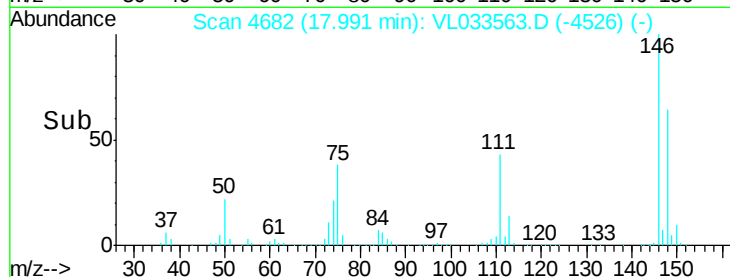
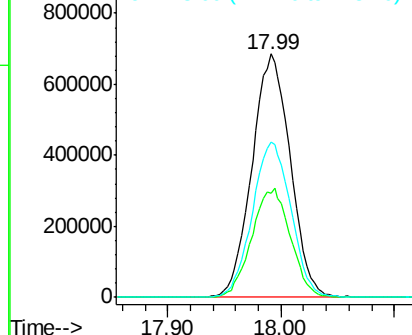
148 64.5 32.0 96.0

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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: 9.315 ppbv

RT: 23.55 min Scan# 6410

Delta R.T. 0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

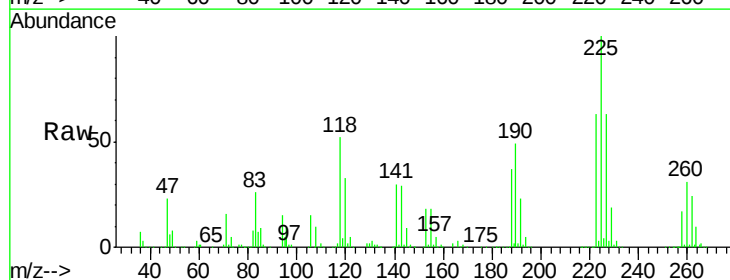
Tgt Ion:225 Resp: 1240675

Ion Ratio Lower Upper

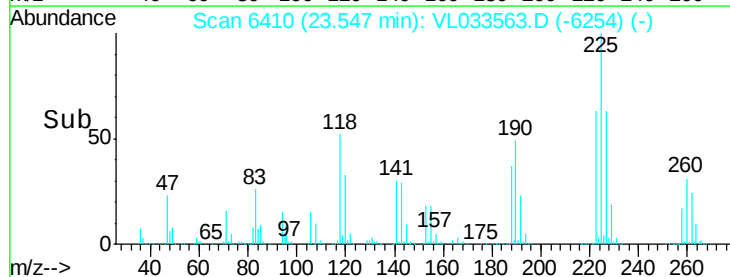
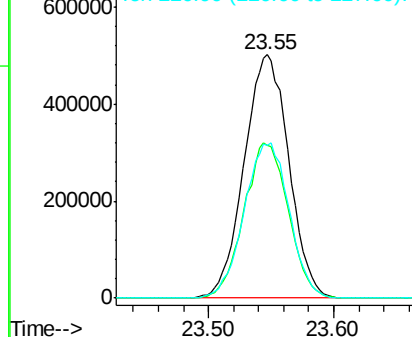
225 100

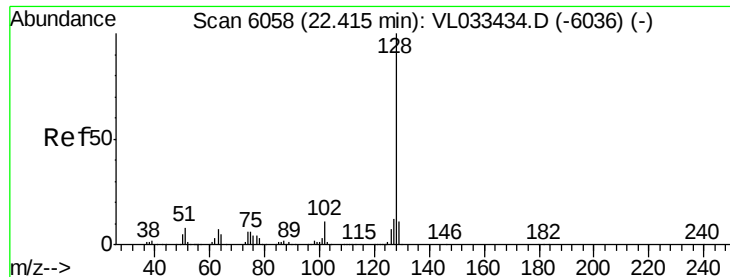
223 63.1 50.0 75.0

227 64.2 51.1 76.7



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: 9.710 ppbv

RT: 22.42 min Scan# 6058

Delta R.T. -0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:128 Resp: 2851965

Ion Ratio Lower Upper

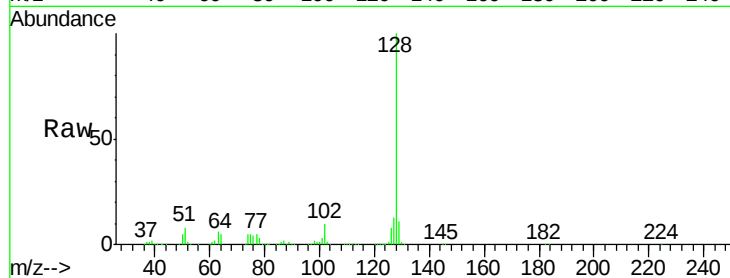
128 100

127 13.3 9.8 14.8

129 11.3 8.6 12.8

Manual Integrations
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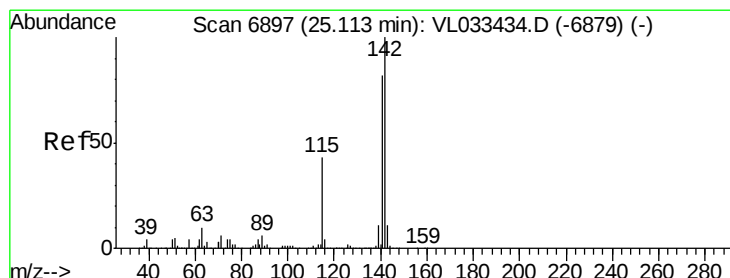
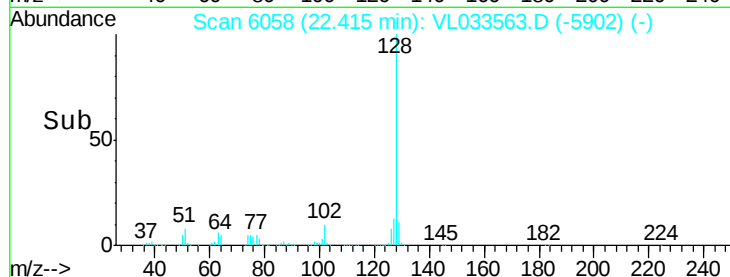
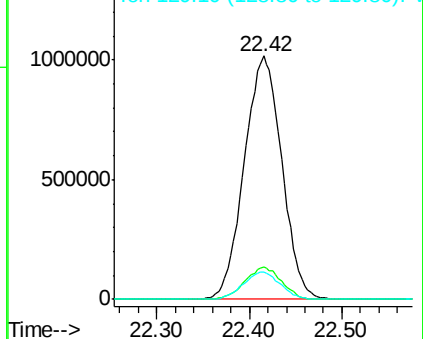
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Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 12.265 ppbv

RT: 25.12 min Scan# 6898

Delta R.T. 0.00 min

Lab File: VL033563.D

Acq: 10 Apr 2019 11:06

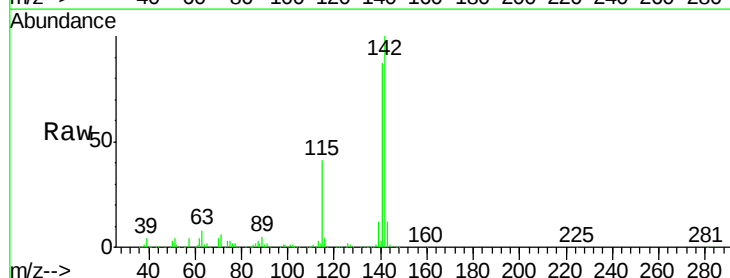
Tgt Ion:142 Resp: 1208944

Ion Ratio Lower Upper

142 100

141 85.1 66.6 99.8

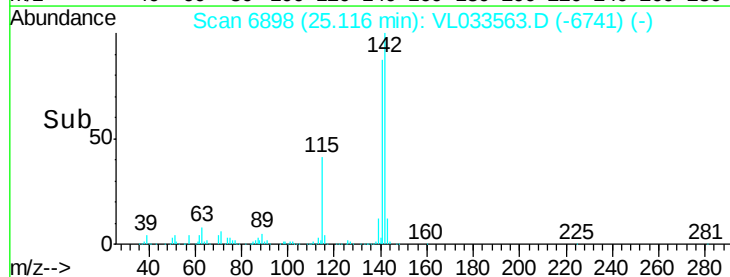
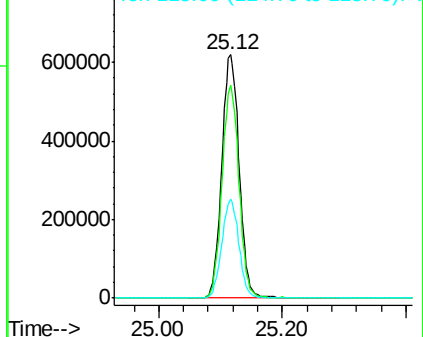
115 39.8 34.4 51.6



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 8.930 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. -0.00 min
 Lab File: VL033563.D
 Acq: 10 Apr 2019 11:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	77.0	115.4
184	30.9	24.6	36.8

Manual Integrations
 APPROVED

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