

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL011619\
 Data File : VL033111.D
 Acq On : 17 Jan 2019 3:50
 Operator : SY/AP
 Sample : IDOC-4
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IDOC-4

Manual Integrations
 APPROVED

sam
 1/21/2019 8:51:21 AM

Quant Time: Jan 17 04:30:59 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL010419AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 0

QLast Update : Fri Jan 04 16:09:05 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1123789	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2855721	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2894795m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2046933	9.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.20%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.08	85	2330071	11.141	ppbv	99
3) Chlorodifluoromethane	3.01	51	1308040	10.283	ppbv	97
4) Chloromethane	3.17	50	727355	9.983	ppbv	97
5) Vinyl Chloride	3.29	62	738051	10.030	ppbv	97
6) Bromomethane	3.51	94	476695	9.536	ppbv	99
7) Chloroethane	3.60	64	279136	9.700	ppbv	94
8) Dichlorotetrafluoroethane	3.22	85	1815304	10.077	ppbv	99
9) Propene	3.04	41	544622	11.460	ppbv	99
10) Heptane	8.25	43	1366480	10.099	ppbv	100
11) Trichlorofluoromethane	4.00	101	1926815	8.338	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1342872	9.190	ppbv	100
13) Ethanol	3.64	45	102368	5.402	ppbv	92
14) Bromoethene	3.79	108	611246	9.471	ppbv	99
15) Acetone	3.90	43	1430423	9.196	ppbv	99
16) 1,3-Butadiene	3.36	39	577098	9.839	ppbv	93
17) tert-Butyl alcohol	4.36	59	287381	8.722	ppbv	100
18) 1,1-Dichloroethene	4.35	96	616453	9.158	ppbv	97
19) Isopropyl Alcohol	4.02	45	740074	6.911	ppbv	100
20) Methylene Chloride	4.41	84	525229	8.100	ppbv	96
21) Allyl Chloride	4.48	41	984515	10.214	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	618264	9.266	ppbv	96
23) Vinyl Acetate	5.15	43	2046469	10.342	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1519266	9.043	ppbv	99
25) Ethyl Acetate	5.77	43	2407172	9.155	ppbv	99
26) Hexane	5.78	57	1144276	9.243	ppbv	98
27) Carbon Disulfide	4.62	76	1555213	10.186	ppbv	98
28) Methyl tert-Butyl Ether	5.11	73	1915949	9.915	ppbv	100
29) Chloroform	5.85	83	1867831	8.853	ppbv	100
30) Cyclohexane	7.25	84	979995	10.616	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1162180	10.109	ppbv	95
32) 1,1,1-Trichloroethane	6.62	97	1979431	9.244	ppbv	100
34) 2-Butanone	5.33	43	1525548	9.194	ppbv	100
35) Carbon Tetrachloride	7.13	117	2155604	8.788	ppbv	98
36) Benzene	7.00	78	2339856	10.003	ppbv	99
37) 1,2-Dichloroethane	6.41	62	1458512	8.930	ppbv	100
38) Trichloroethene	7.96	130	965370	10.032	ppbv	98
39) 1,2-Dichloropropane	7.74	63	852876	9.705	ppbv	97
40) 1,4-Dioxane	7.95	88	310434	9.306	ppbv	96
41) Tetrahydrofuran	6.15	42	876513	10.379	ppbv	99
42) Bromodichloromethane	7.92	83	2012568	8.970	ppbv	98
43) Methyl Methacrylate	8.14	69	910520	10.373	ppbv	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL011619\
 Data File : VL033111.D
 Acq On : 17 Jan 2019 3:50
 Operator : SY/AP
 Sample : IDOC-4
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IDOC-4

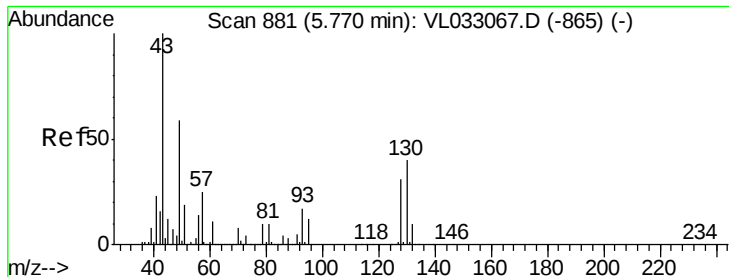
Manual Integrations
 APPROVED

sam
 1/21/2019 8:51:21 AM

Quant Time: Jan 17 04:30:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 0
 QLast Update : Fri Jan 04 16:09:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3814482	9.629	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1223605	11.199	ppbv	97
46) cis-1,3-Dichloropropene	8.83	75	1431644	11.480	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	935322	9.110	ppbv	98
48) Dibromochloromethane	10.45	129	1732778	9.552	ppbv	100
49) Bromoform	13.20	173	1377644	8.692	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2150372	10.228	ppbv	100
51) 2-Hexanone	10.27	43	1611504	10.593	ppbv #	99
52) Tetrachloroethene	11.37	164	816833	9.879	ppbv	96
53) Toluene	9.95	91	2665601	10.633	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1450124	9.803	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1211596	8.100	ppbv	98
57) Chlorobenzene	12.30	112	2024318	8.378	ppbv	99
58) Ethyl Benzene	12.86	91	3530021	9.658	ppbv	100
59) m/p-Xylene	13.15	91	5936143m	17.557	ppbv	
60) o-Xylene	13.85	91	2849962	8.610	ppbv	100
61) Styrene	13.69	104	2116874	10.023	ppbv	100
62) Isopropylbenzene	14.83	105	4022140	8.539	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	1895510	7.709	ppbv	99
64) n-propylbenzene	15.72	120	1000815	8.363	ppbv	98
65) tert-Butylbenzene	16.91	119	3514783	8.424	ppbv	100
66) Benzyl Chloride	17.15	91	2028678	8.531	ppbv	100
67) sec-Butylbenzene	17.46	105	4984259	8.347	ppbv	100
69) p-Isopropyltoluene	17.82	119	4208854	8.684	ppbv	100
70) n-Butylbenzene	18.71	91	4328021	8.884	ppbv	100
71) 2-Chlorotoluene	15.61	91	2939560	8.799	ppbv	100
72) 4-Ethyltoluene	16.00	105	3222032	8.858	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	3087213	8.602	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	3226733	8.118	ppbv	97
75) 1,3-Dichlorobenzene	17.17	146	1839718	7.863	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1817431	8.527	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1817880	8.628	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	1249027	7.718	ppbv	100
79) Naphthalene	22.42	128	3809836	11.379	ppbv	98
80) Naphthalene,2-methyl-	25.11	142	880850	8.670	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1796043	11.104	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

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA_L

ClientSampleId :

IDOC-4

Tgt Ion: 49 Resp: 1123789

Ion Ratio Lower Upper

49 100

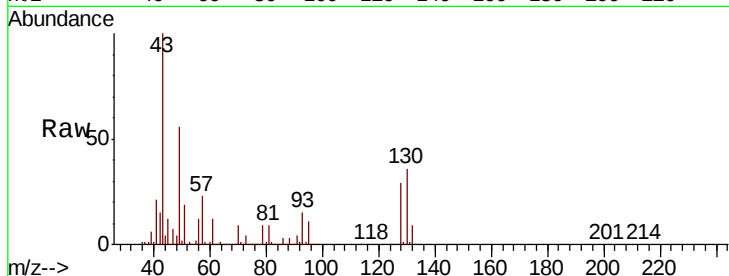
128 52.3 26.2 78.5

130 65.8 33.6 100.6

Manual Integrations
APPROVED

sam

1/21/2019 8:51:21 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

800000

600000

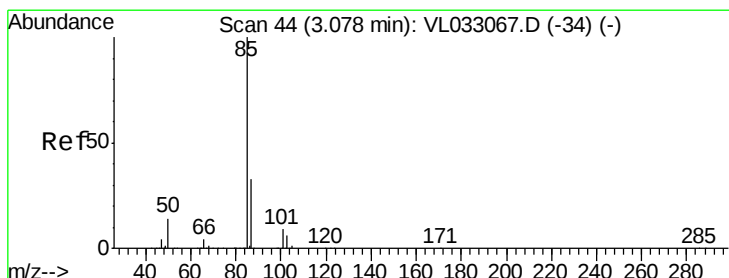
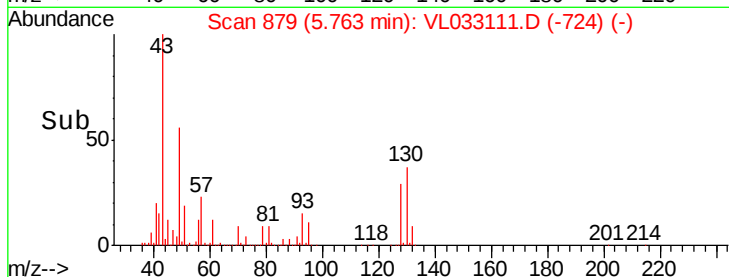
400000

200000

0

5.70 5.75 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 11.141 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033111.D

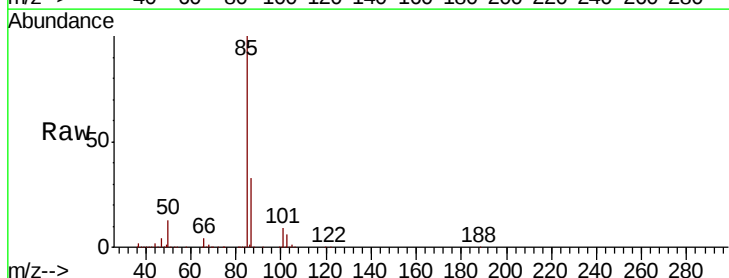
Acq: 17 Jan 2019 3:50

Tgt Ion: 85 Resp: 2330071

Ion Ratio Lower Upper

85 100

87 33.4 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

2000000

1500000

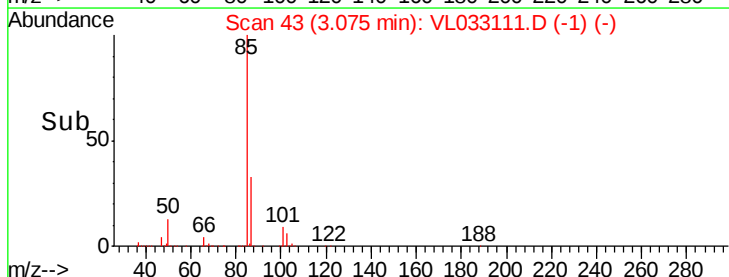
1000000

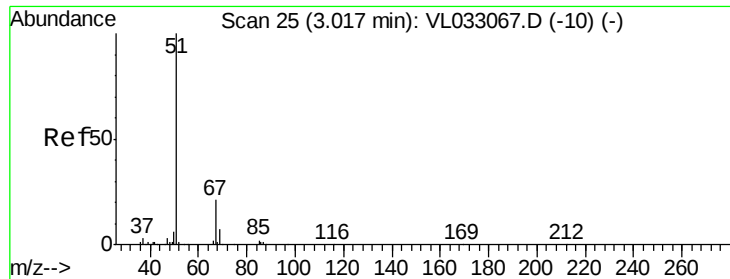
500000

0

3.00 3.05 3.10

Time-->





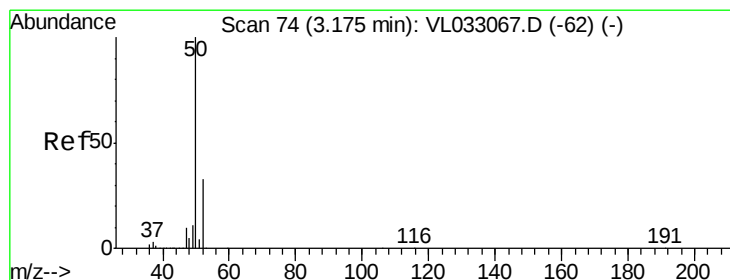
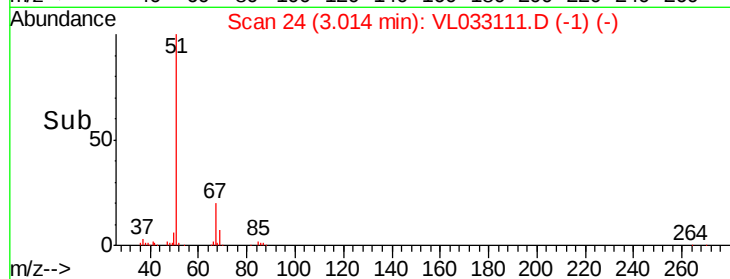
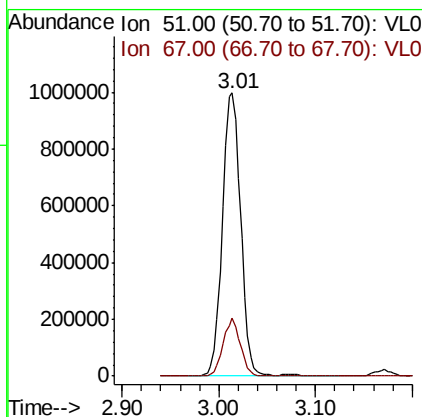
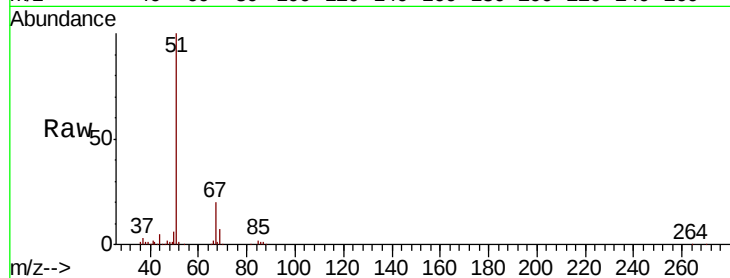
#3
Chlorodifluoromethane
Concen: 10.283 ppbv
RT: 3.01 min Scan# 24
Delta R.T. 0.00 min
Lab File: VL033111.D
Acq: 17 Jan 2019 3:50

Instrument :
MSVOA_L
ClientSampled :
IDOC-4

Tgt Ion: 51 Resp: 1308040
Ion Ratio Lower Upper
51 100
67 19.2 16.3 24.5

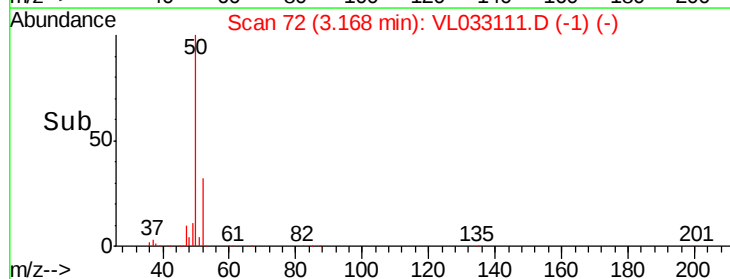
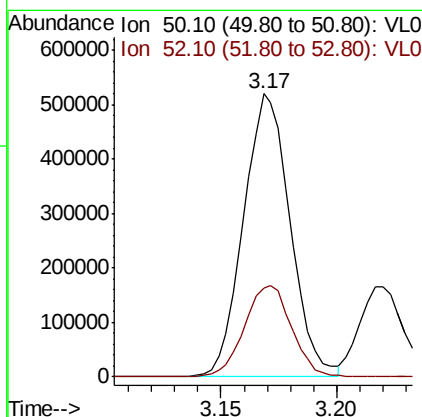
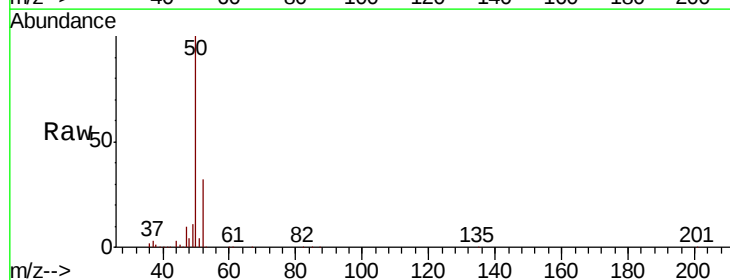
Manual Integrations
APPROVED

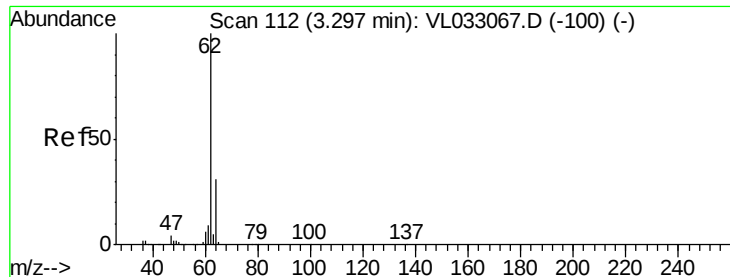
sam
1/21/2019 8:51:21 AM



#4
Chloromethane
Concen: 9.983 ppbv
RT: 3.17 min Scan# 72
Delta R.T. -0.00 min
Lab File: VL033111.D
Acq: 17 Jan 2019 3:50

Tgt Ion: 50 Resp: 727355
Ion Ratio Lower Upper
50 100
52 31.6 26.9 40.3





#5

Vinyl Chloride

Concen: 10.030 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA_L

ClientSampleId :

IDOC-4

Tgt Ion: 62 Resp: 738051

Ion Ratio Lower Upper

62 100

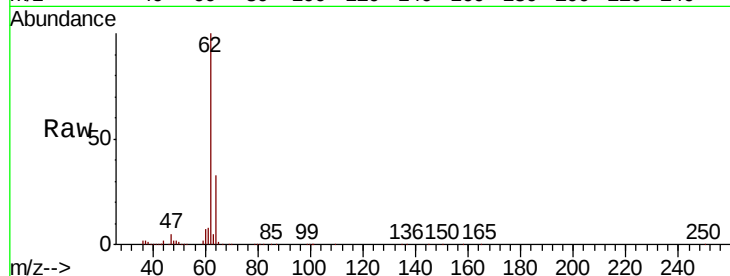
64 33.3 25.3 37.9

Manual Integrations

APPROVED

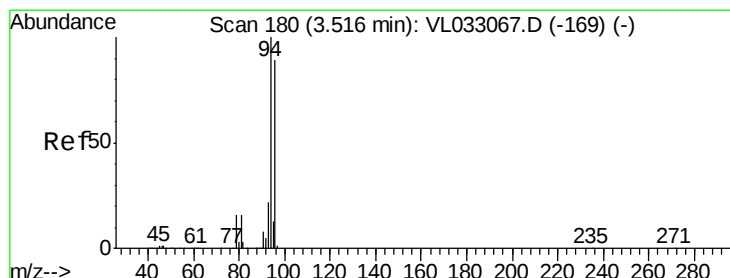
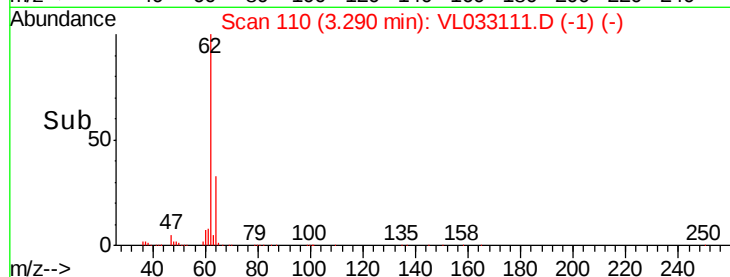
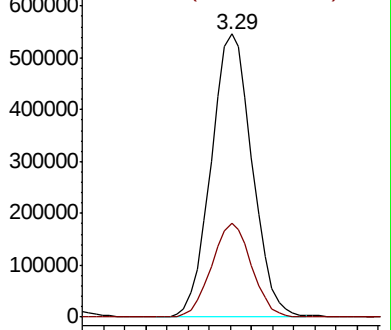
sam

1/21/2019 8:51:21 AM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.536 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033111.D

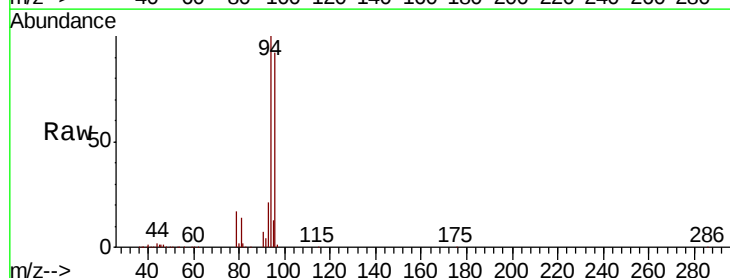
Acq: 17 Jan 2019 3:50

Tgt Ion: 94 Resp: 476695

Ion Ratio Lower Upper

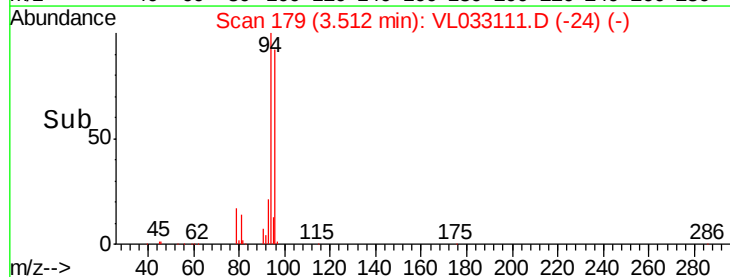
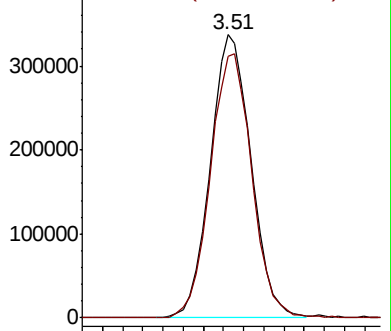
94 100

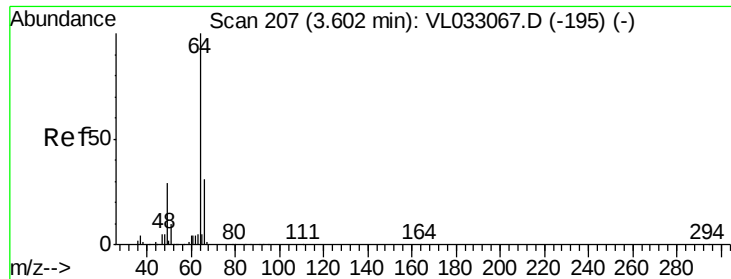
96 92.3 72.8 109.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.700 ppbv

RT: 3.60 min Scan# 206

Delta R.T. 0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA_L

ClientSampleId :

IDOC-4

Tgt Ion: 64 Resp: 279136

Ion Ratio Lower Upper

64 100

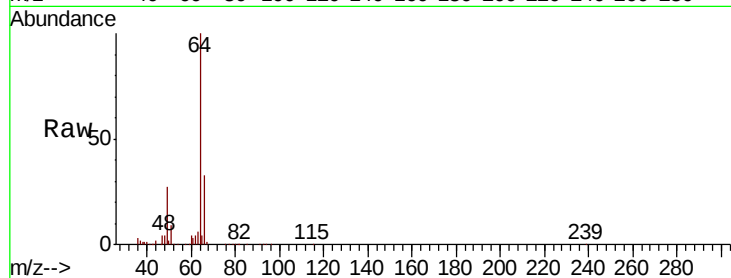
66 33.0 23.7 35.5

Manual Integrations

APPROVED

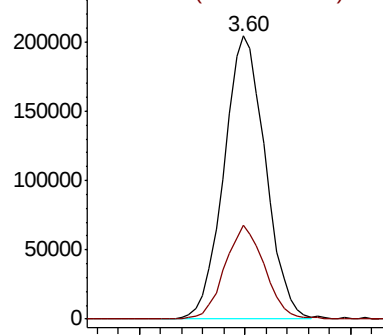
sam

1/21/2019 8:51:21 AM

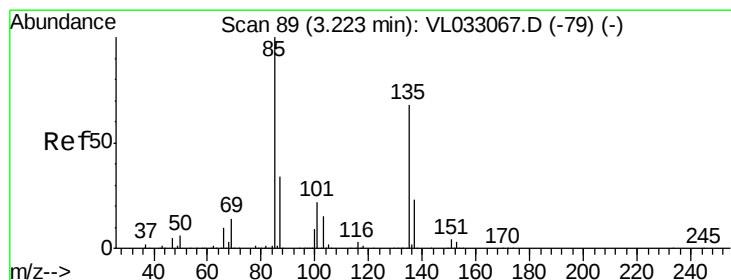
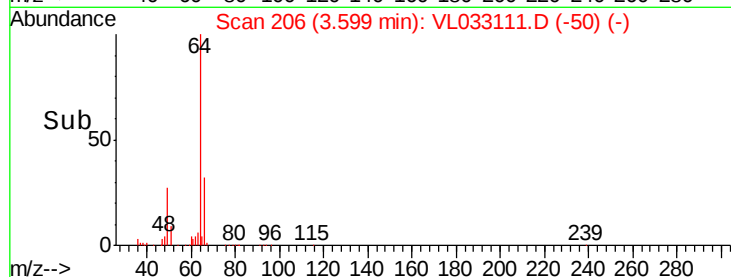


Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



Time-->



#8

Dichlorotetrafluoroethane

Concen: 10.077 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033111.D

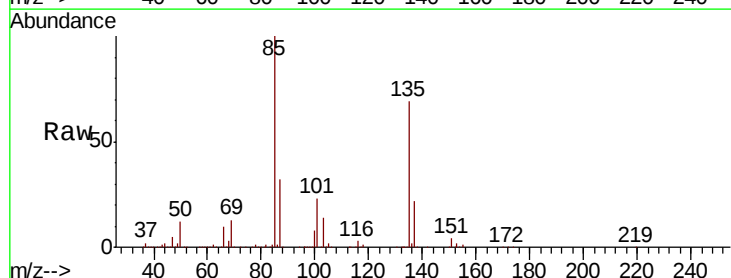
Acq: 17 Jan 2019 3:50

Tgt Ion: 85 Resp: 1815304

Ion Ratio Lower Upper

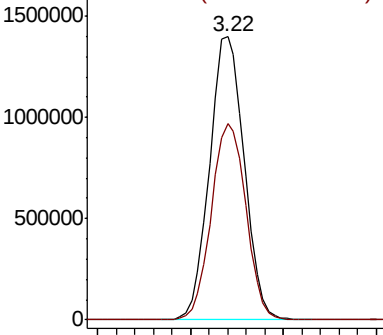
85 100

135 69.5 54.9 82.3

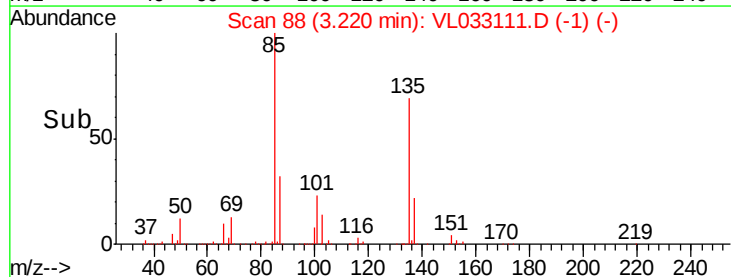


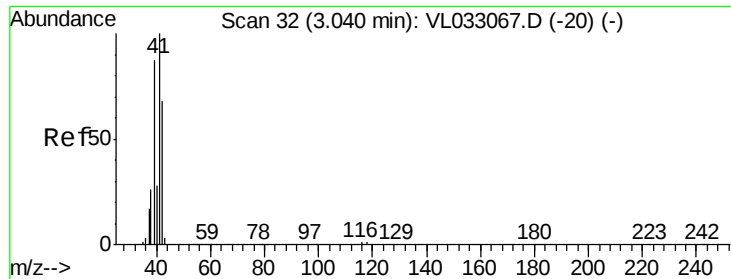
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



Time-->





#9

Propene

Concen: 11.460 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA_L

ClientSampleId :

IDOC-4

Tgt Ion: 41 Resp: 544622

Ion Ratio Lower Upper

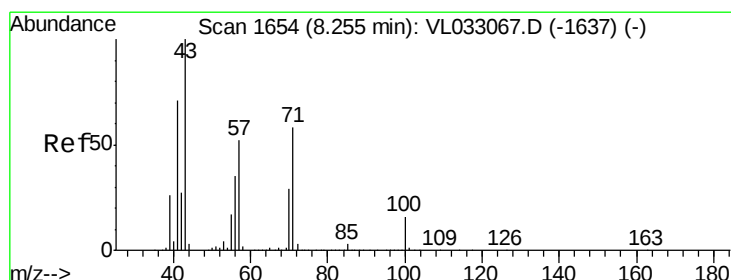
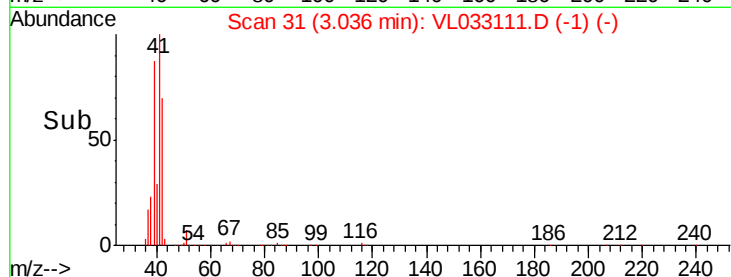
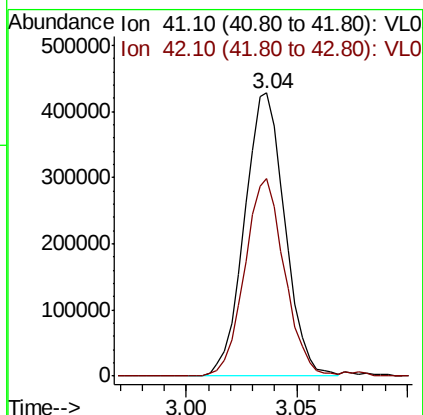
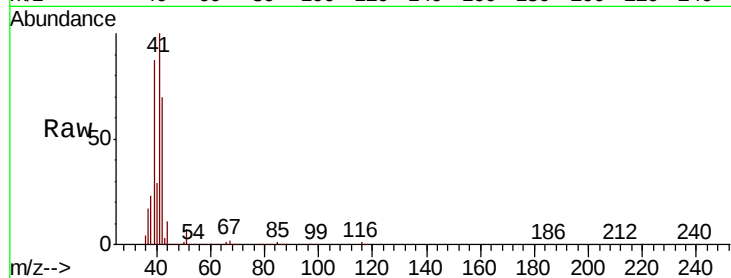
41 100

42 70.2 55.3 82.9

Manual Integrations
APPROVED

sam

1/21/2019 8:51:21 AM



#10

Heptane

Concen: 10.099 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033111.D

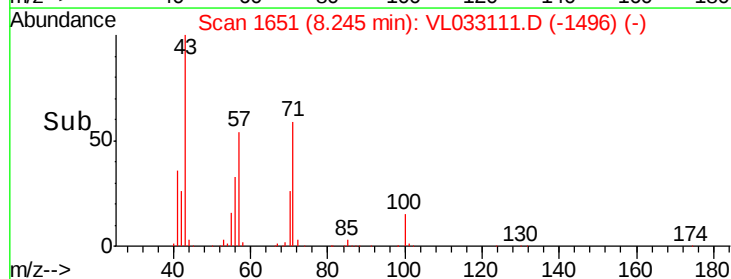
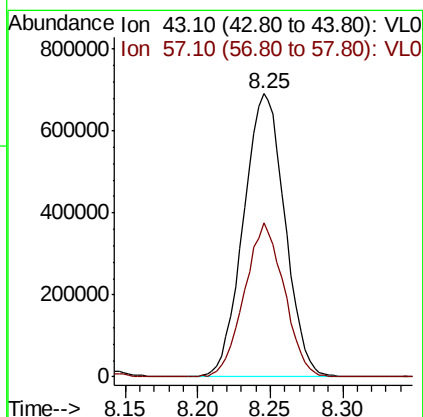
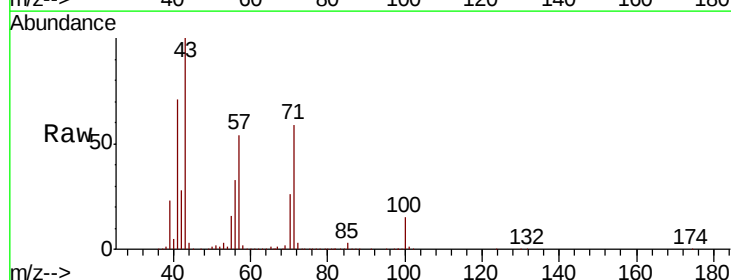
Acq: 17 Jan 2019 3:50

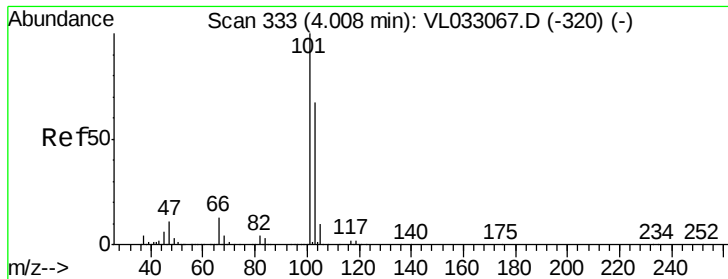
Tgt Ion: 43 Resp: 1366480

Ion Ratio Lower Upper

43 100

57 52.1 41.9 62.9





#11

Trichlorofluoromethane

Concen: 8.338 ppbv

RT: 4.00 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA_L

ClientSampleId :

IDOC-4

Tgt Ion:101 Resp: 1926815

Ion Ratio Lower Upper

101 100

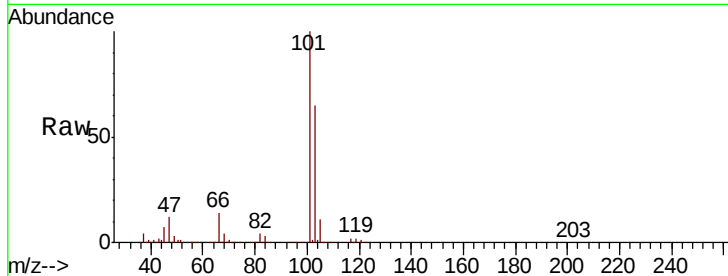
103 64.6 51.7 77.5

Manual Integrations

APPROVED

sam

1/21/2019 8:51:21 AM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

1500000

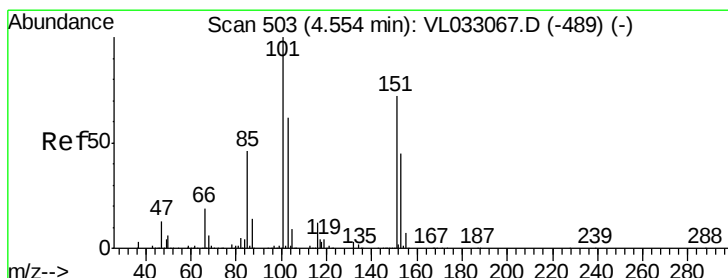
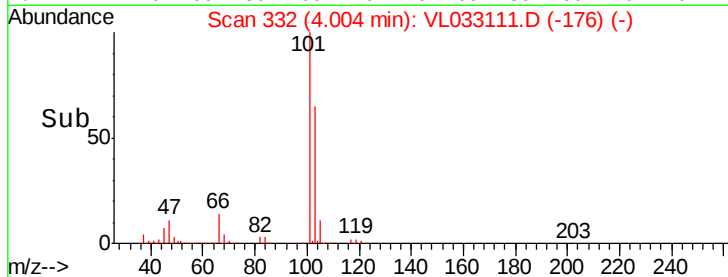
1000000

500000

0

Time-->

3.95 4.00 4.05



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.190 ppbv

RT: 4.55 min Scan# 502

Delta R.T. -0.00 min

Lab File: VL033111.D

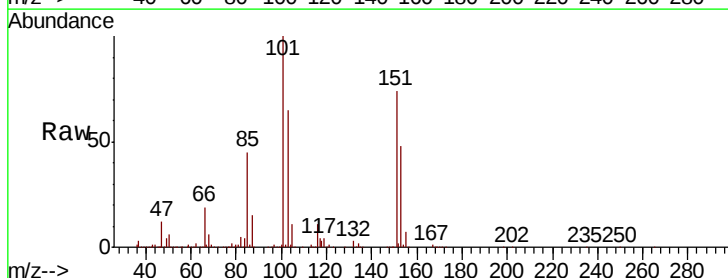
Acq: 17 Jan 2019 3:50

Tgt Ion:101 Resp: 1342872

Ion Ratio Lower Upper

101 100

151 73.0 58.3 87.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

800000

600000

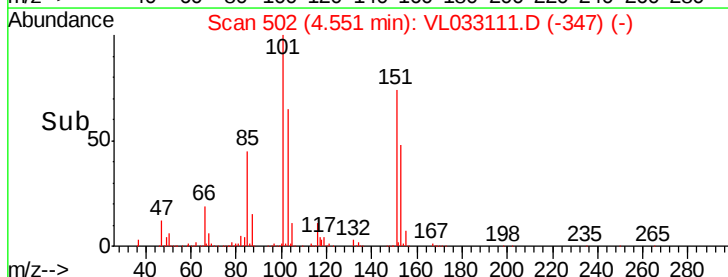
400000

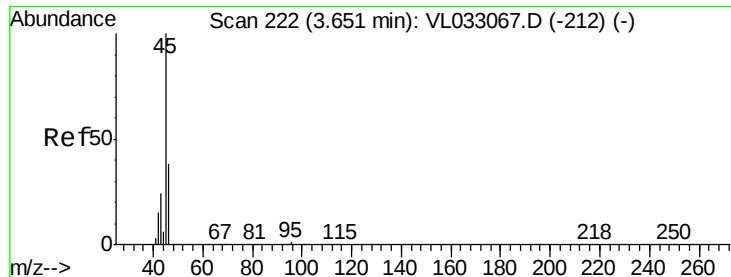
200000

0

Time-->

4.50 4.55 4.60





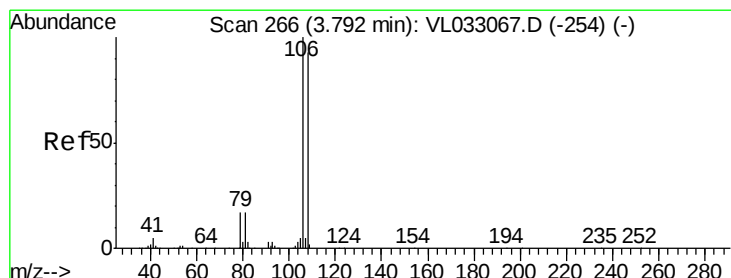
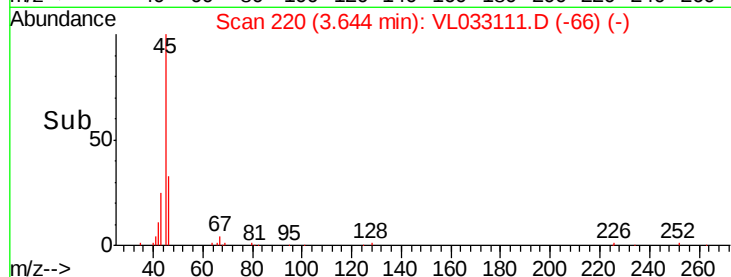
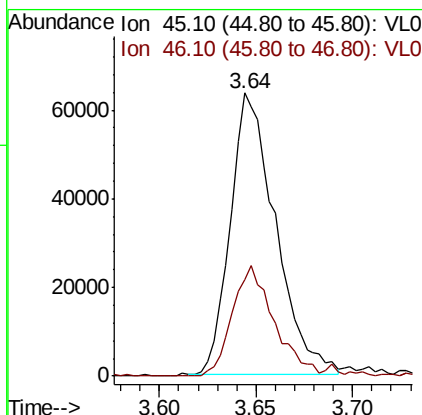
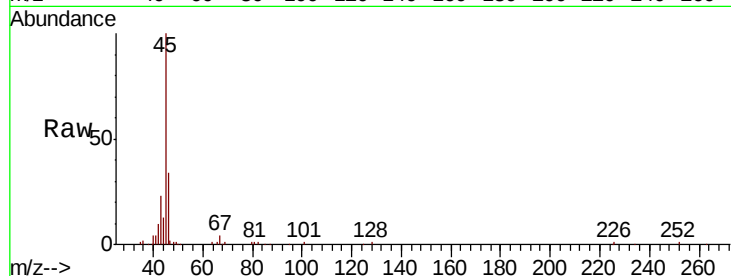
#13
Ethanol
Concen: 5.402 ppbv
RT: 3.64 min Scan# 220
Delta R.T. -0.01 min
Lab File: VL033111.D
Acq: 17 Jan 2019 3:50

Instrument :
MSVOA_L
ClientSampleId :
IDOC-4

Tgt Ion: 45 Resp: 102368
Ion Ratio Lower Upper
45 100
46 39.0 13.8 55.2

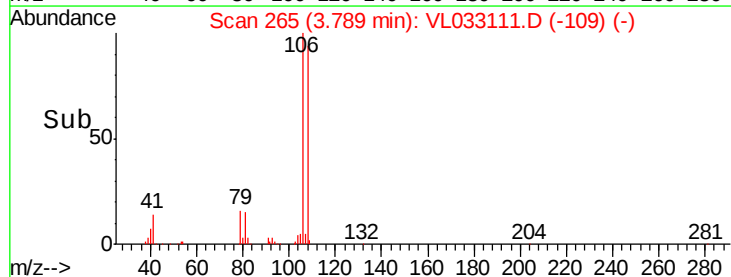
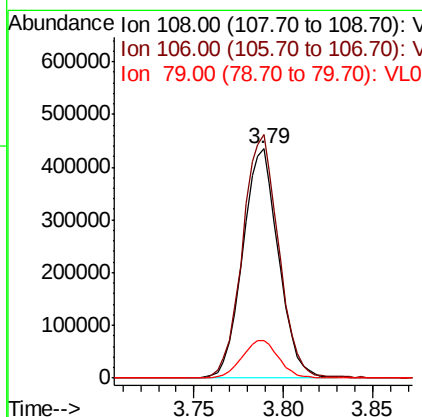
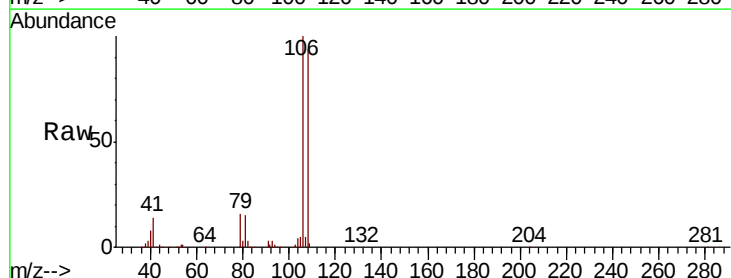
Manual Integrations
APPROVED

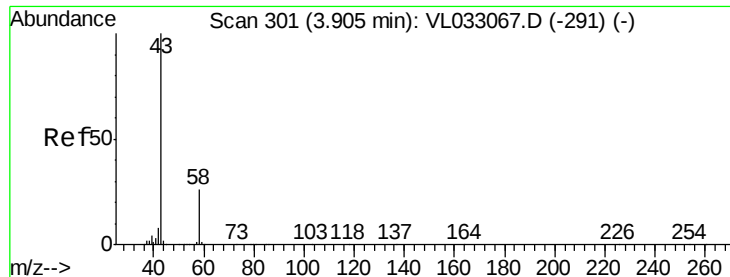
sam
1/21/2019 8:51:21 AM



#14
Bromoethene
Concen: 9.471 ppbv
RT: 3.79 min Scan# 265
Delta R.T. 0.00 min
Lab File: VL033111.D
Acq: 17 Jan 2019 3:50

Tgt Ion: 108 Resp: 611246
Ion Ratio Lower Upper
108 100
106 107.1 86.4 129.6
79 17.3 14.3 21.5





#15

Acetone

Concen: 9.196 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA_L

ClientSampleId :

IDOC-4

Tgt Ion: 43 Resp: 1430423

Ion Ratio Lower Upper

43 100

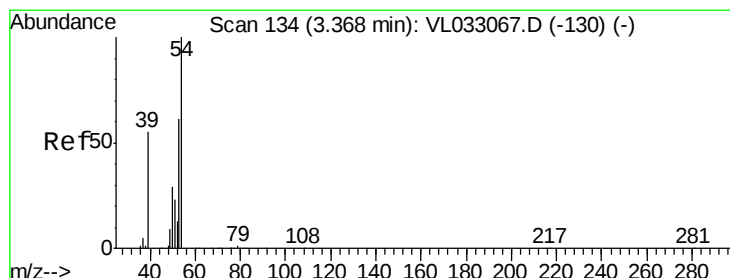
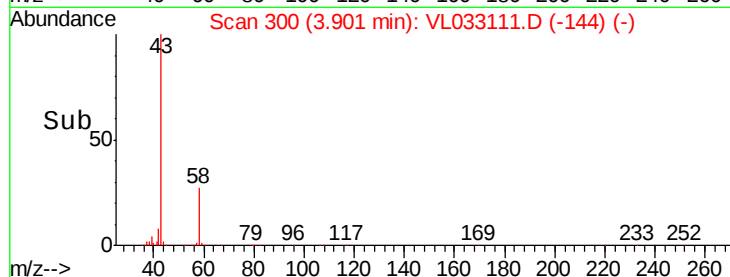
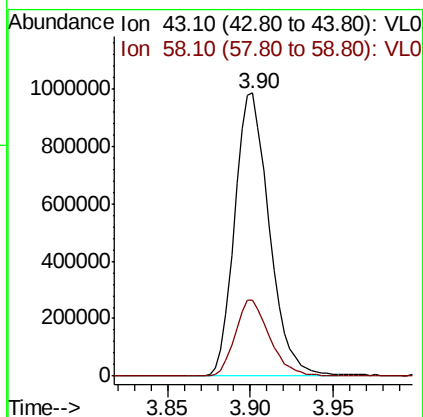
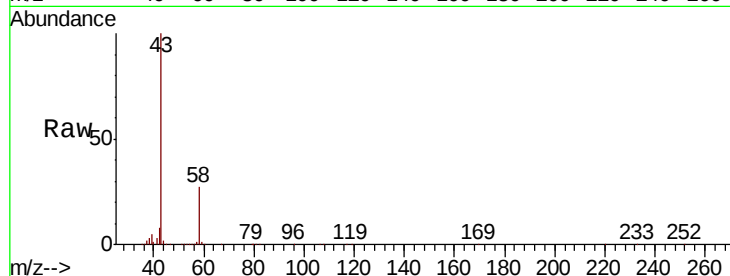
58 26.9 21.1 31.7

Manual Integrations

APPROVED

sam

1/21/2019 8:51:21 AM



#16

1,3-Butadiene

Concen: 9.839 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033111.D

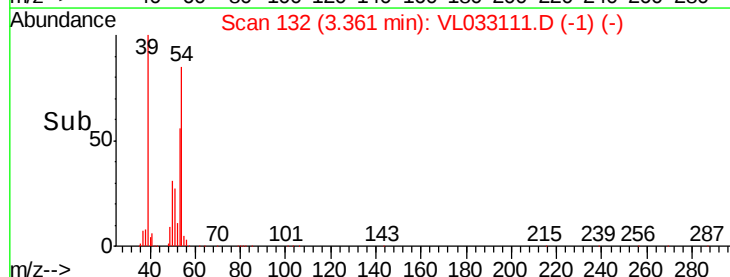
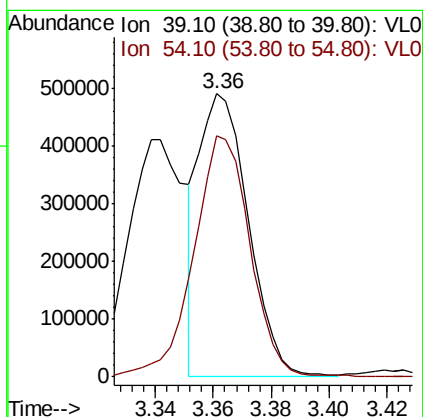
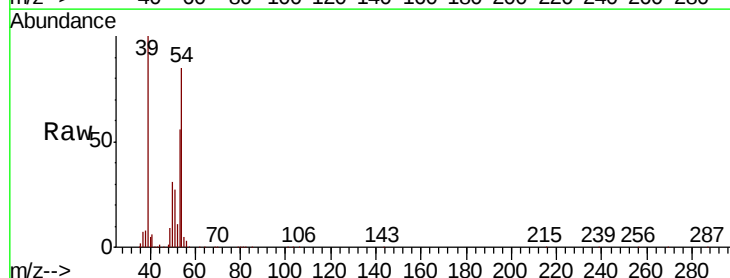
Acq: 17 Jan 2019 3:50

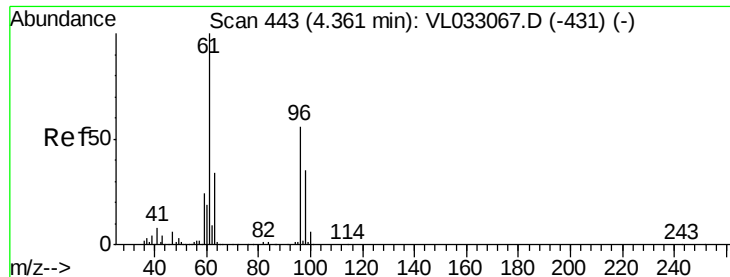
Tgt Ion: 39 Resp: 577098

Ion Ratio Lower Upper

39 100

54 98.5 73.7 110.5





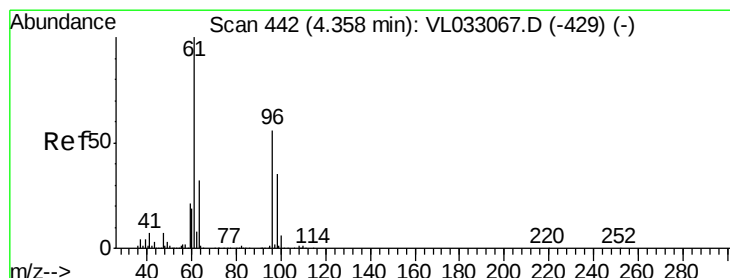
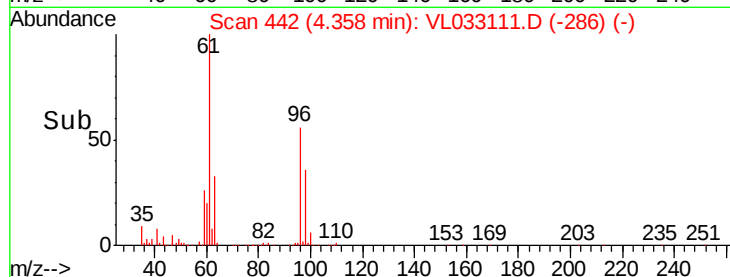
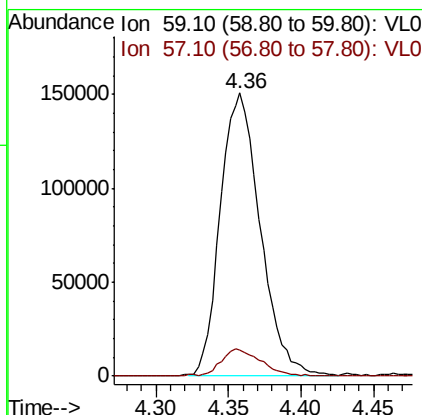
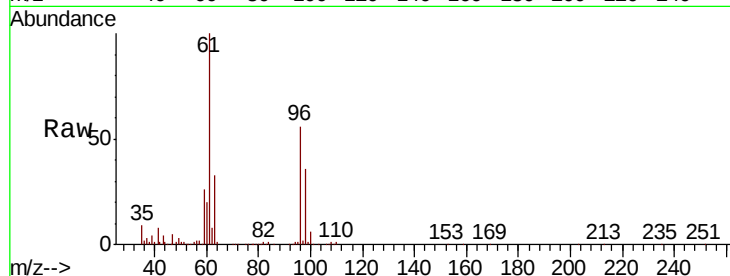
#17
 tert-Butyl alcohol
 Concen: 8.722 ppbv
 RT: 4.36 min Scan# 442
 Delta R.T. 0.00 min
 Lab File: VL033111.D
 Acq: 17 Jan 2019 3:50

Instrument :
 MSVOA_L
 ClientSampleId :
 IDOC-4

Tgt Ion: 59 Resp: 287381
 Ion Ratio Lower Upper
 59 100
 57 9.7 7.7 11.5

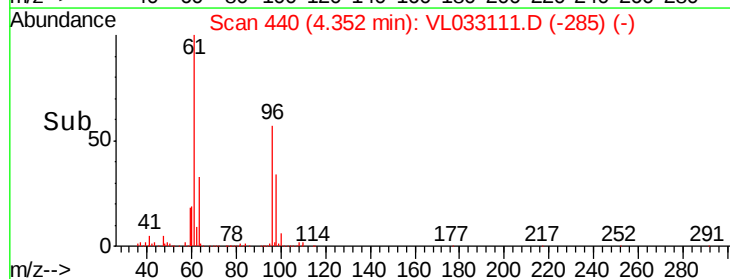
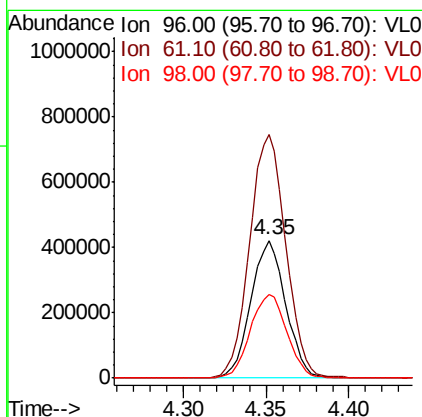
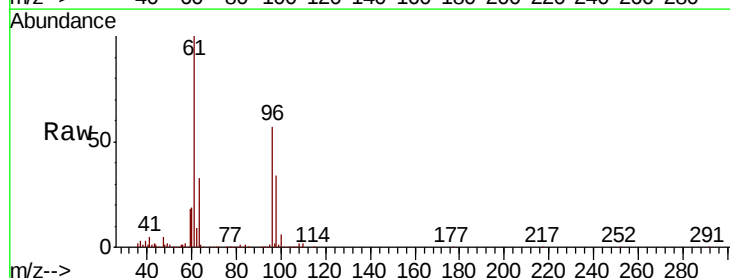
Manual Integrations
 APPROVED

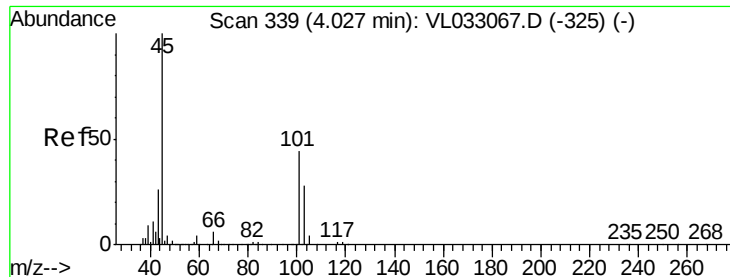
sam
 1/21/2019 8:51:21 AM



#18
 1,1-Dichloroethene
 Concen: 9.158 ppbv
 RT: 4.35 min Scan# 440
 Delta R.T. -0.00 min
 Lab File: VL033111.D
 Acq: 17 Jan 2019 3:50

Tgt Ion: 96 Resp: 616453
 Ion Ratio Lower Upper
 96 100
 61 176.7 143.7 215.5
 98 60.3 52.1 78.1





#19

Isopropyl Alcohol

Concen: 6.911 ppbv

RT: 4.02 min Scan# 337

Delta R.T. -0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA_L

ClientSampleId :

IDOC-4

Tgt Ion: 45 Resp: 740074

Ion Ratio Lower Upper

45 100

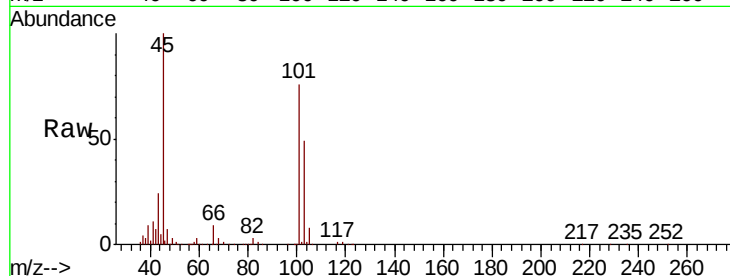
58 1.6 1.4 2.2

Manual Integrations

APPROVED

sam

1/21/2019 8:51:21 AM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.02

400000

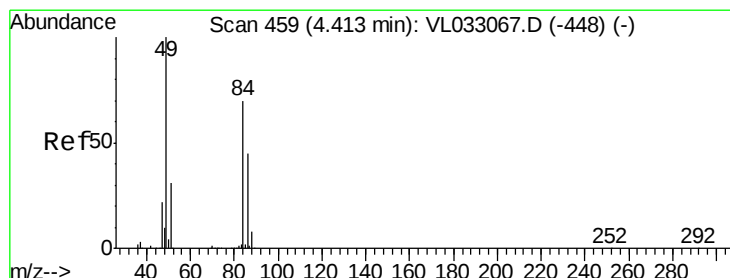
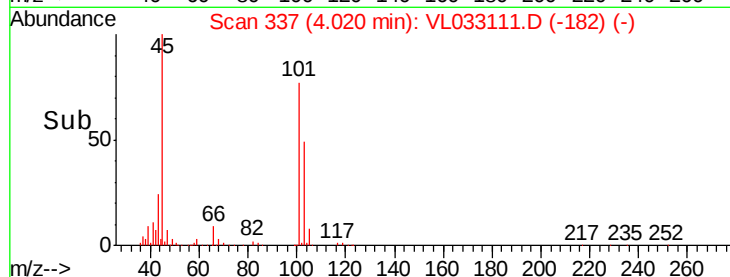
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 8.100 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Tgt Ion: 84 Resp: 525229

Ion Ratio Lower Upper

84 100

49 139.4 115.8 173.6

51 43.2 35.7 53.5

86 65.6 49.7 74.5

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

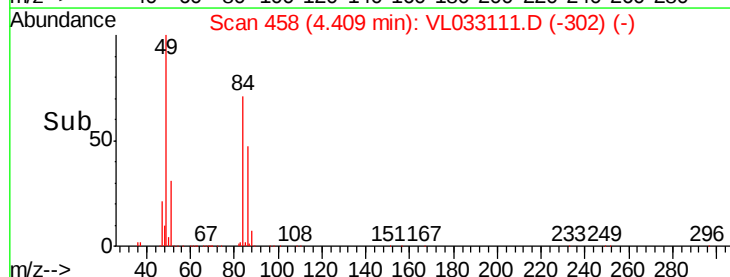
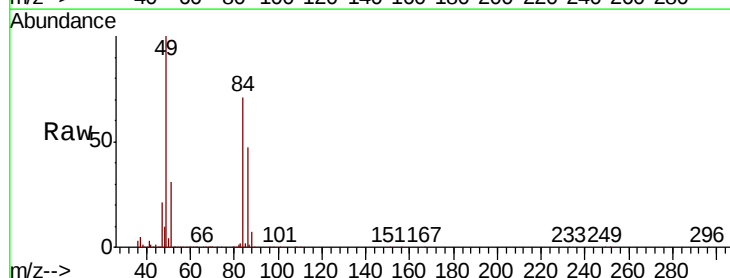
600000

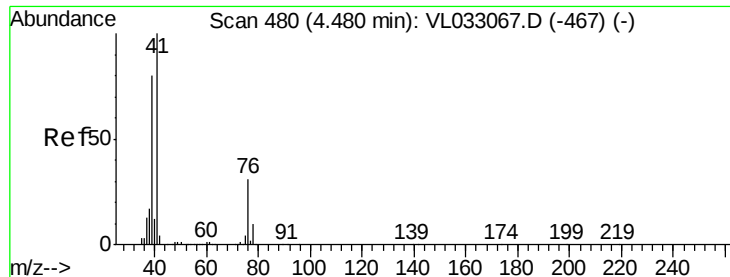
400000

200000

0

Time-->





#21

Allyl Chloride

Concen: 10.214 ppbv

RT: 4.48 min Scan# 479

Delta R.T. -0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA_L

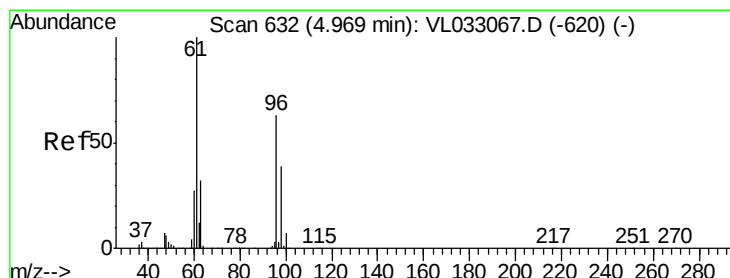
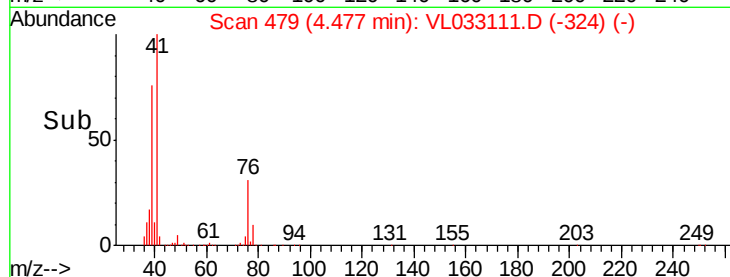
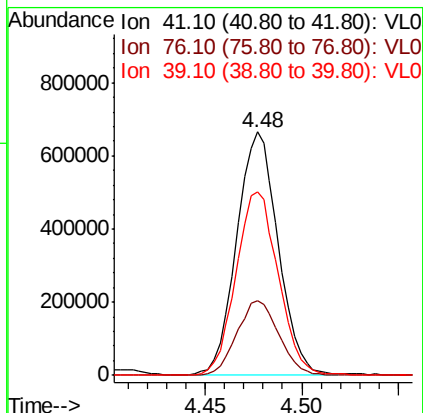
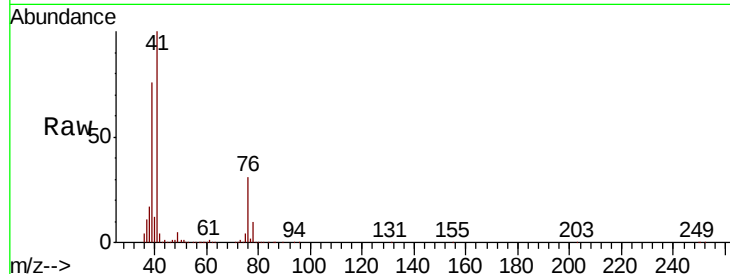
ClientSampleId :

IDOC-4

Tgt Ion:	41	Resp:	984515
Ion Ratio		Lower	Upper
41	100		
76	31.3	24.6	36.8
39	77.4	62.8	94.2

Manual Integrations
APPROVED

sam
1/21/2019 8:51:21 AM



#22

trans-1,2-Dichloroethene

Concen: 9.266 ppbv

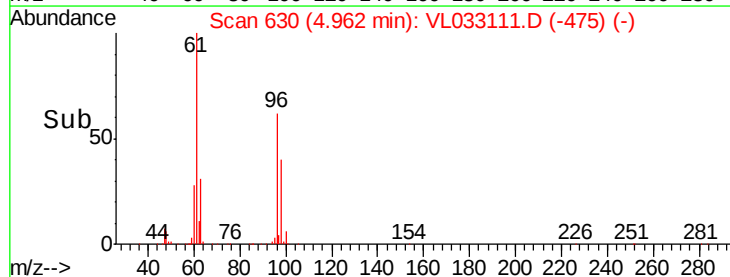
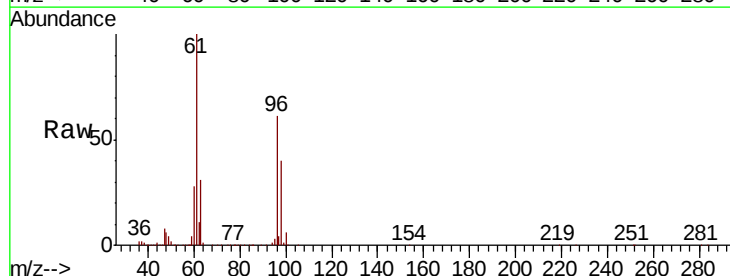
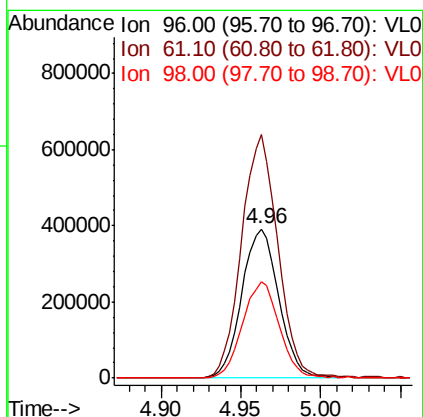
RT: 4.96 min Scan# 630

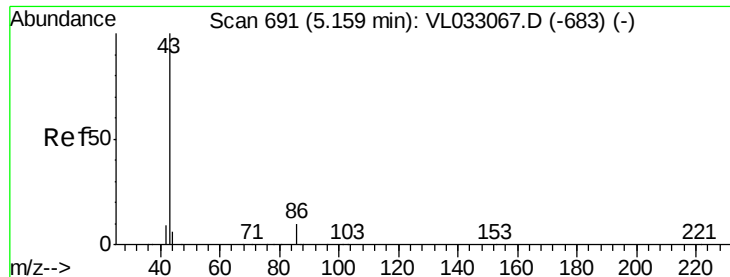
Delta R.T. -0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Tgt Ion:	96	Resp:	618264
Ion Ratio		Lower	Upper
96	100		
61	163.1	125.2	187.8
98	64.5	50.9	76.3





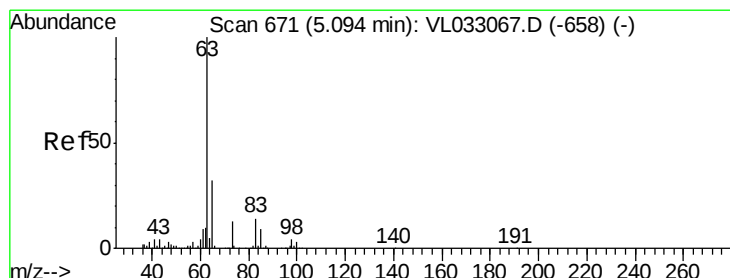
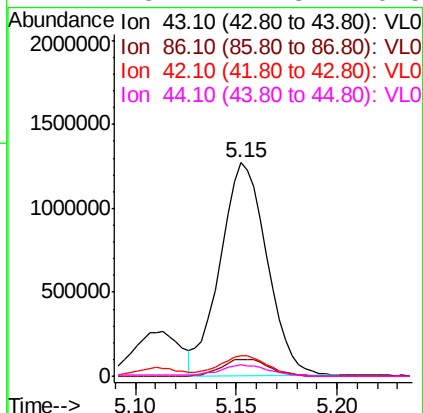
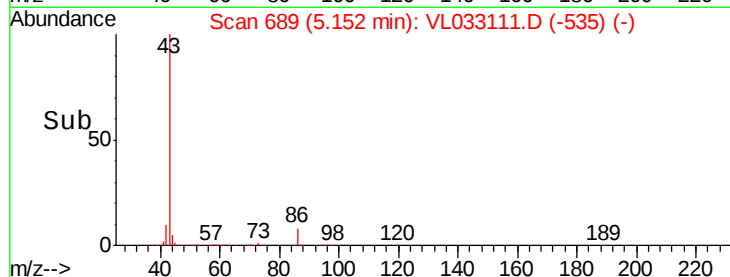
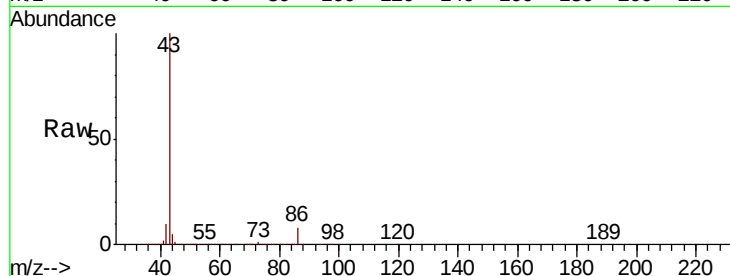
#23
 Vinyl Acetate
 Concen: 10.342 ppbv
 RT: 5.15 min Scan# 689
 Delta R.T. -0.01 min
 Lab File: VL033111.D
 Acq: 17 Jan 2019 3:50

Instrument :
 MSVOA_L
 ClientSampleId :
 IDOC-4

Tgt Ion	Ratio	Lower	Upper
43	100		
86	7.9	6.2	9.4
42	9.8	8.1	12.1
44	5.1	4.3	6.5

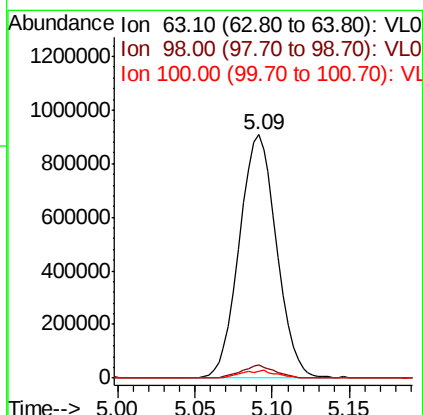
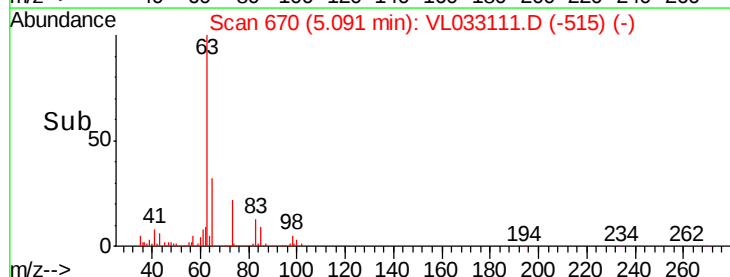
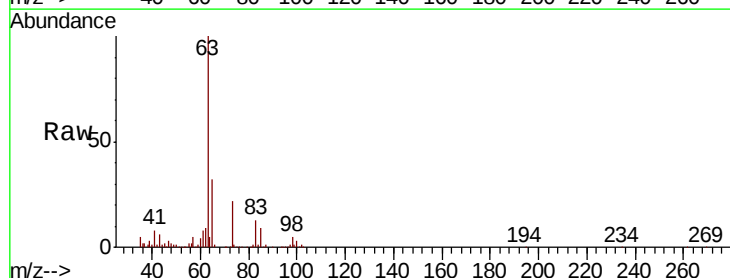
Manual Integrations
 APPROVED

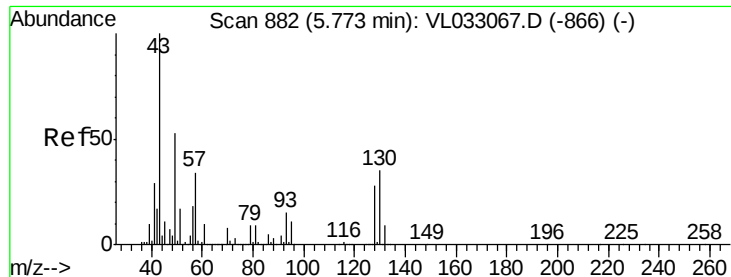
sam
 1/21/2019 8:51:21 AM



#24
 1,1-Dichloroethane
 Concen: 9.043 ppbv
 RT: 5.09 min Scan# 670
 Delta R.T. -0.00 min
 Lab File: VL033111.D
 Acq: 17 Jan 2019 3:50

Tgt Ion	Ratio	Lower	Upper
63	100		
98	5.2	2.4	7.2
100	2.7	1.4	4.0





#25

Ethyl Acetate

Concen: 9.155 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA_L

ClientSampleId :

IDOC-4

Tgt Ion: 43 Resp: 2407172

Ion Ratio Lower Upper

43 100

45 9.8 7.9 11.9

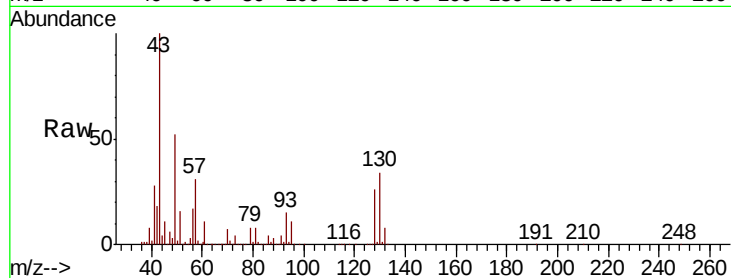
61 9.5 7.8 11.8

70 7.3 6.0 9.0

Manual Integrations
APPROVED

sam

1/21/2019 8:51:21 AM

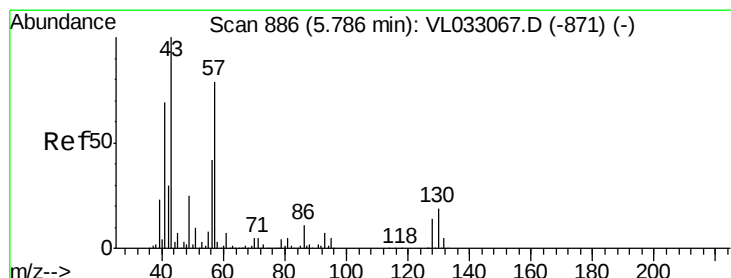
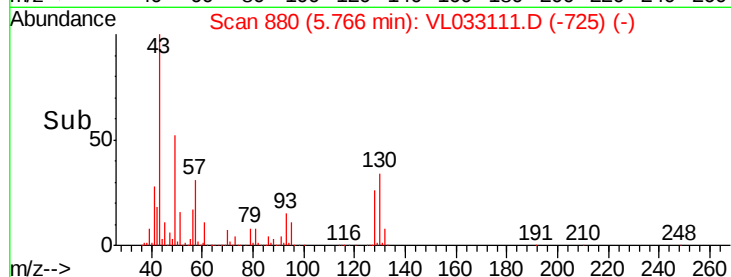
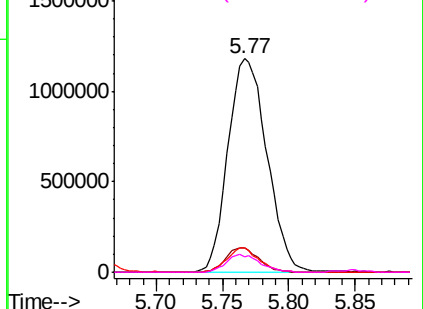


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.243 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Tgt Ion: 57 Resp: 1144276

Ion Ratio Lower Upper

57 100

41 85.0 70.8 106.2

43 211.6 171.8 257.6

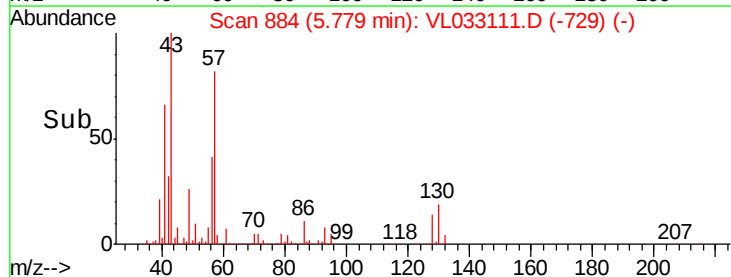
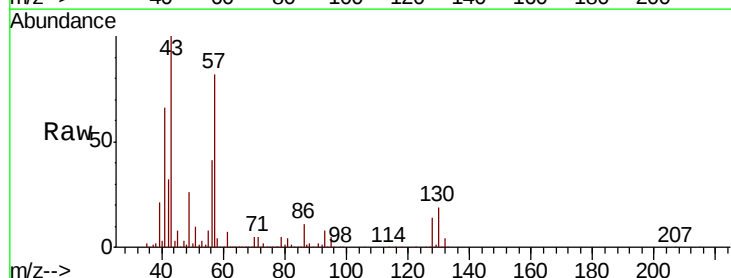
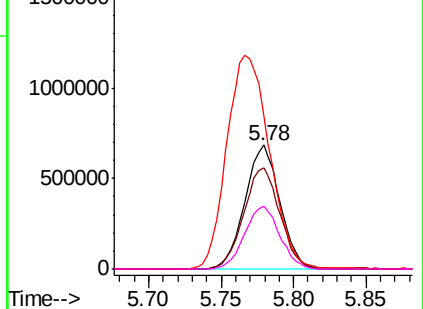
56 51.4 41.9 62.9

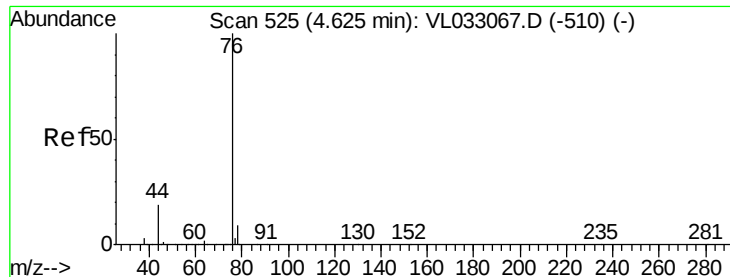
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 10.186 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA_L

ClientSampled :

IDOC-4

Tgt Ion: 76 Resp: 1555213

Ion Ratio Lower Upper

76 100

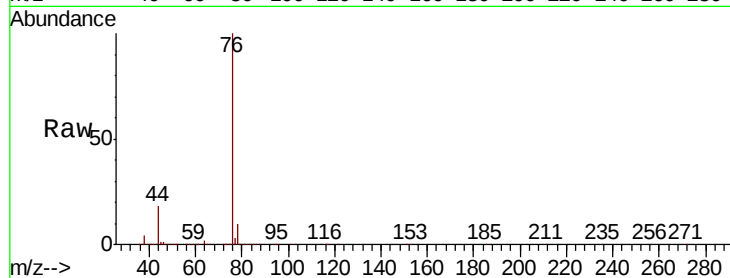
44 18.3 13.9 20.9

78 9.5 7.3 10.9

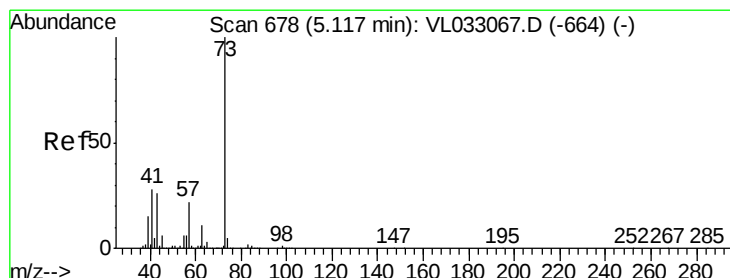
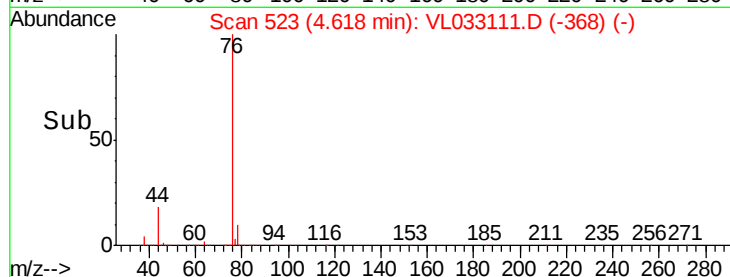
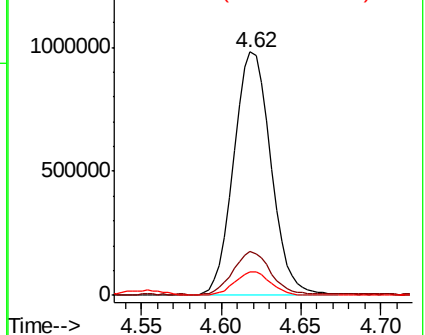
Manual Integrations
APPROVED

Sam

1/21/2019 8:51:21 AM



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



#28

Methyl tert-Butyl Ether

Concen: 9.915 ppbv

RT: 5.11 min Scan# 676

Delta R.T. -0.00 min

Lab File: VL033111.D

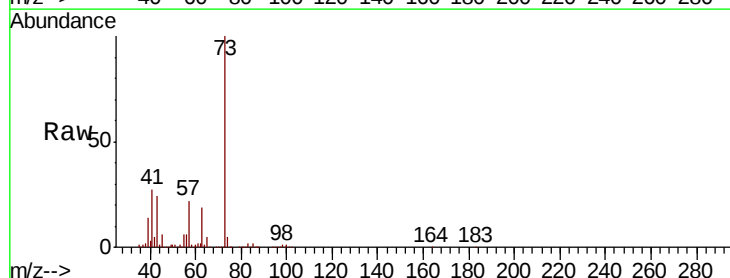
Acq: 17 Jan 2019 3:50

Tgt Ion: 73 Resp: 1915949

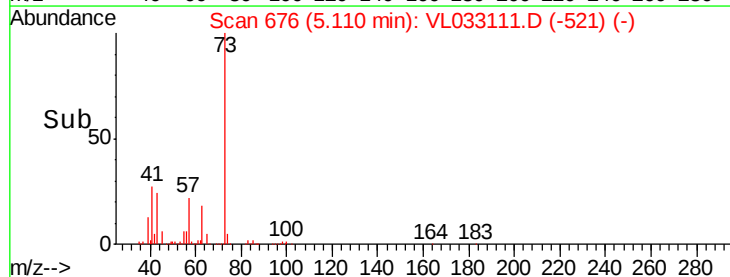
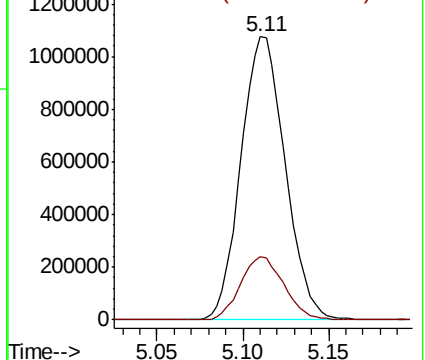
Ion Ratio Lower Upper

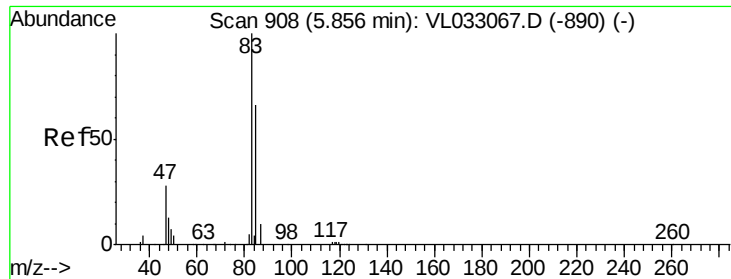
73 100

57 22.1 17.5 26.3



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





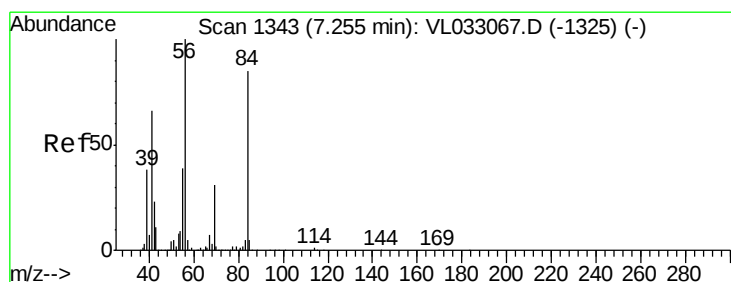
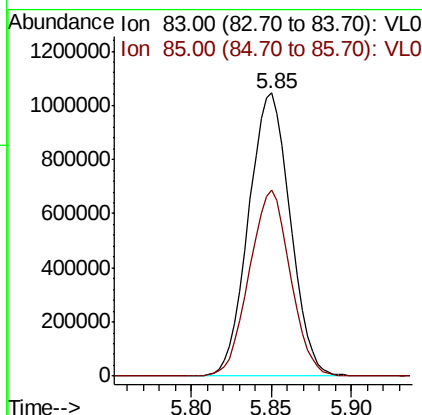
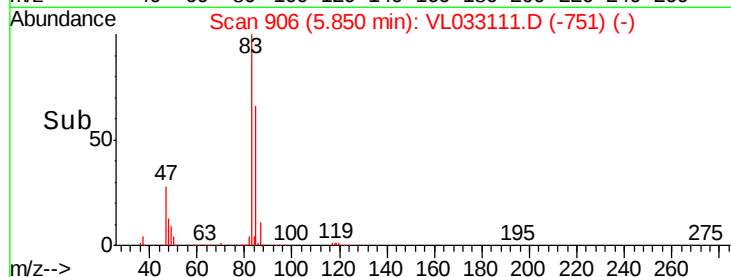
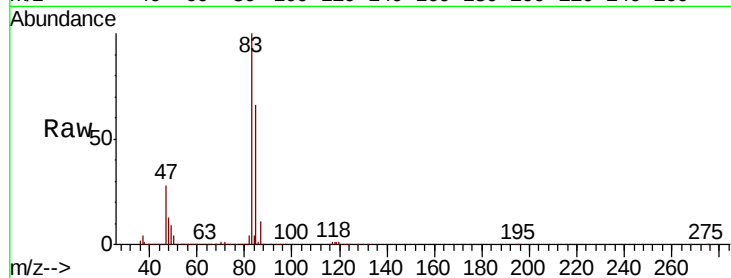
#29
Chloroform
Concen: 8.853 ppbv
RT: 5.85 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL033111.D
Acq: 17 Jan 2019 3:50

Instrument :
MSVOA_L
ClientSampleId :
IDOC-4

Tgt Ion: 83 Resp: 1867831
Ion Ratio Lower Upper
83 100
85 65.6 52.5 78.7

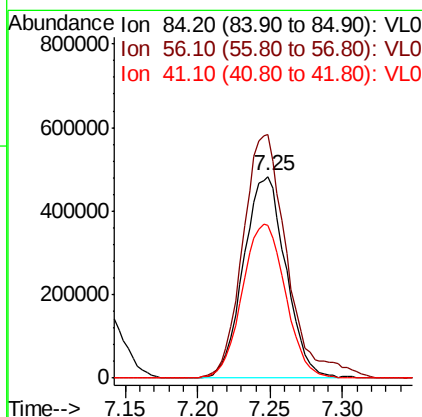
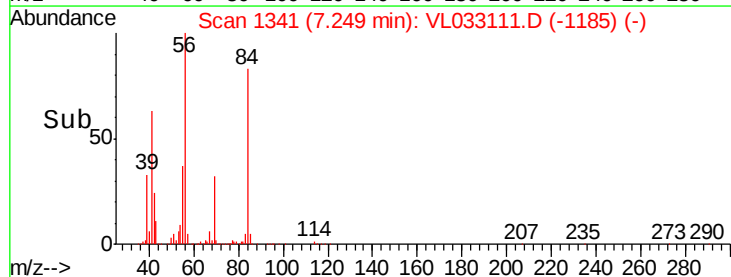
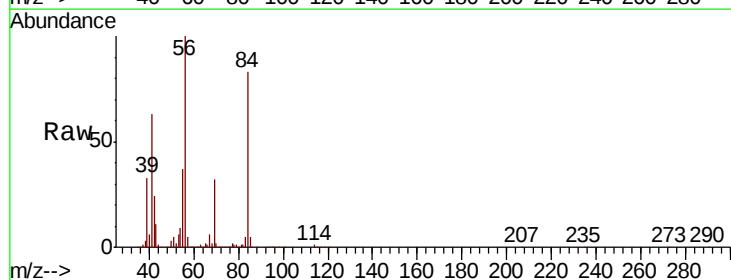
Manual Integrations
APPROVED

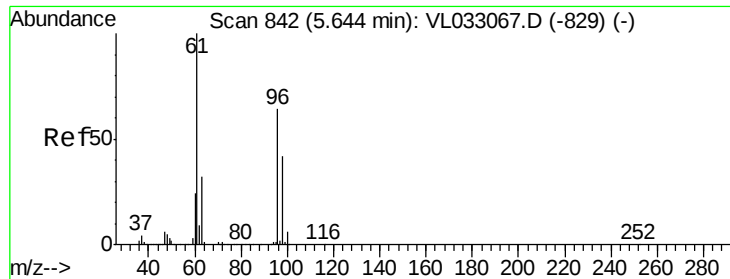
sam
1/21/2019 8:51:21 AM



#30
Cyclohexane
Concen: 10.616 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VL033111.D
Acq: 17 Jan 2019 3:50

Tgt Ion: 84 Resp: 979995
Ion Ratio Lower Upper
84 100
56 126.6 101.8 152.6
41 78.1 63.2 94.8





#31

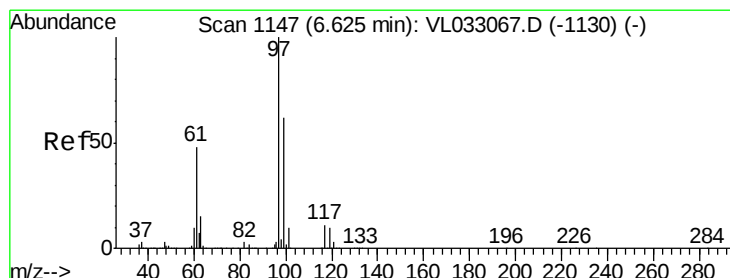
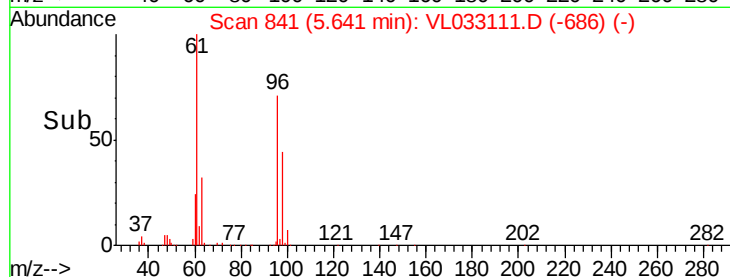
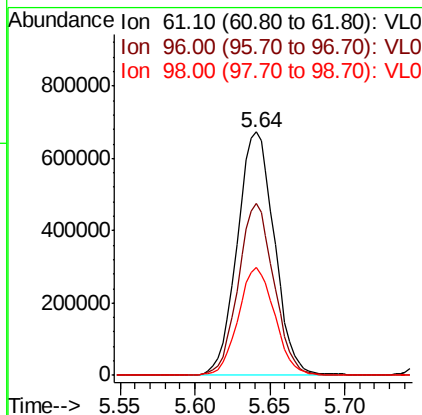
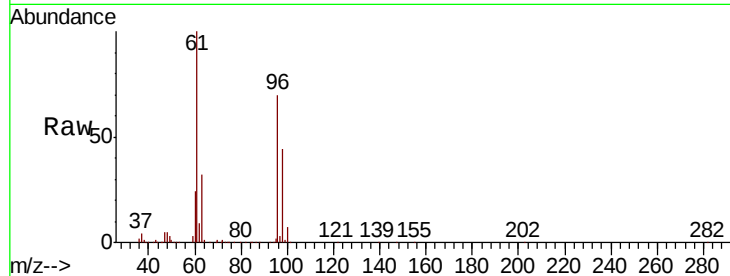
cis-1,2-Dichloroethene
 Concen: 10.109 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. -0.00 min
 Lab File: VL033111.D
 Acq: 17 Jan 2019 3:50

Instrument :
 MSVOA_L
 ClientSampled :
 IDOC-4

Tgt Ion: 61 Resp: 1162180
 Ion Ratio Lower Upper
 61 100
 96 70.4 52.8 79.2
 98 44.2 33.8 50.6

Manual Integrations
 APPROVED

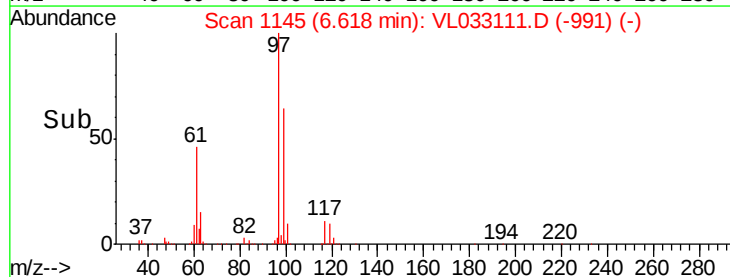
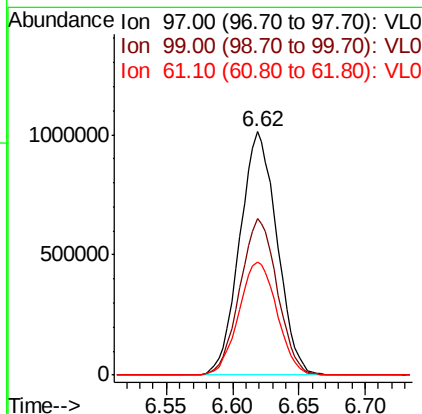
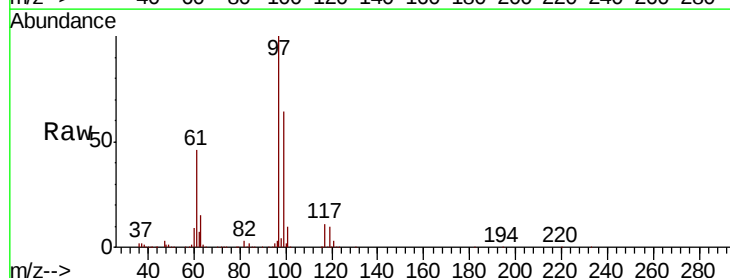
sam
 1/21/2019 8:51:21 AM

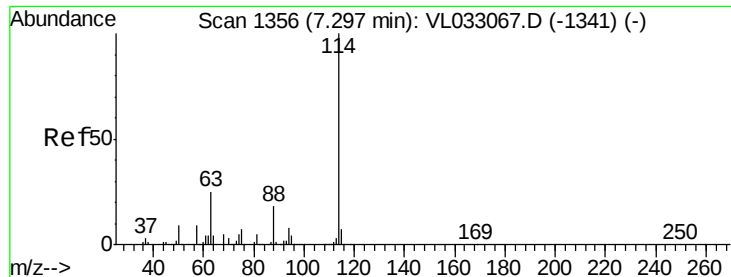


#32

1,1,1-Trichloroethane
 Concen: 9.244 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. -0.01 min
 Lab File: VL033111.D
 Acq: 17 Jan 2019 3:50

Tgt Ion: 97 Resp: 1979431
 Ion Ratio Lower Upper
 97 100
 99 64.5 51.1 76.7
 61 47.9 38.3 57.5





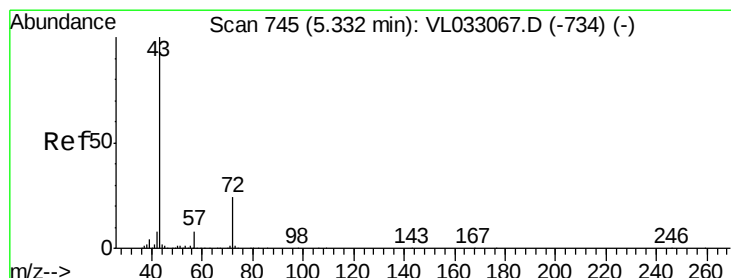
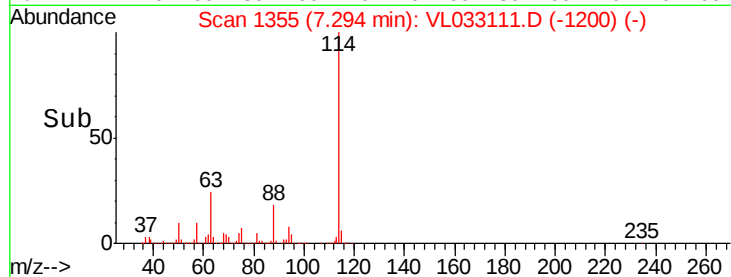
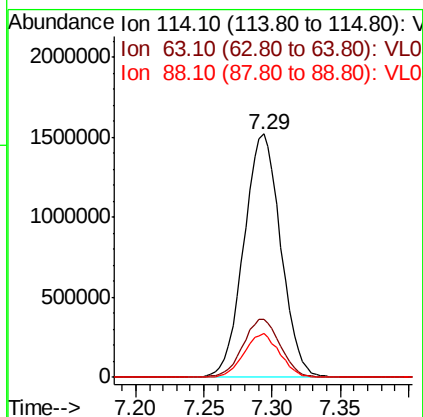
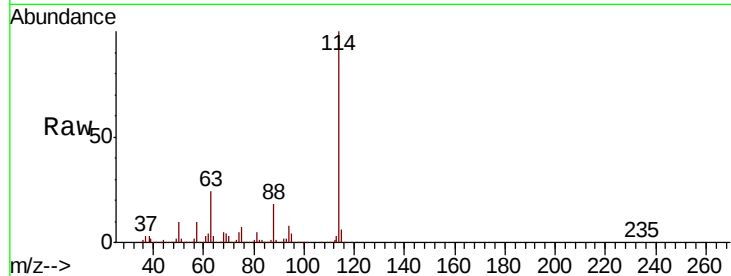
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.00 min
 Lab File: VL033111.D
 Acq: 17 Jan 2019 3:50

Instrument :
 MSVOA_L
 ClientSampleId :
 IDOC-4

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.6	20.1	30.1
88	17.5	14.0	21.0

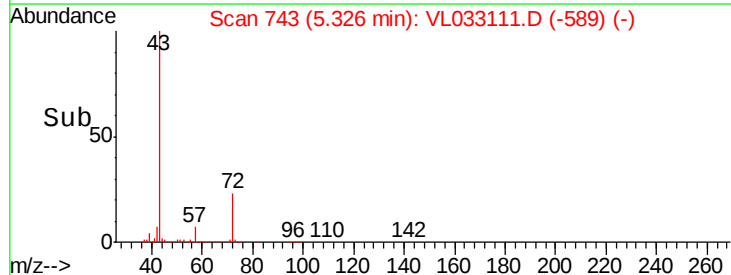
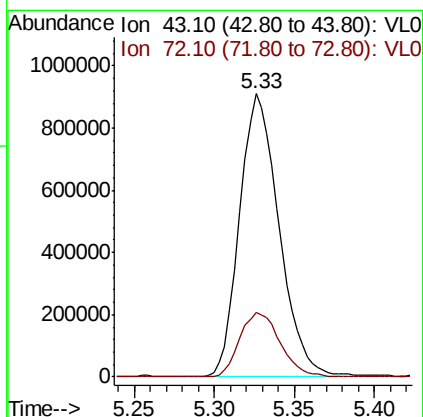
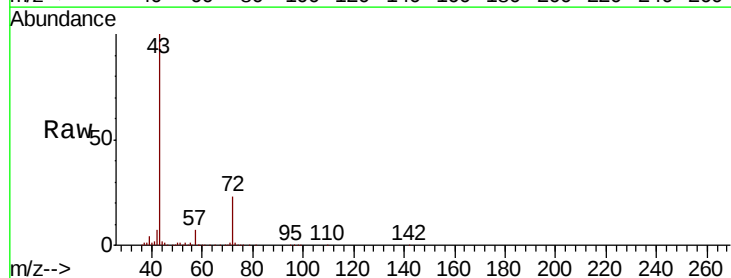
Manual Integrations
 APPROVED

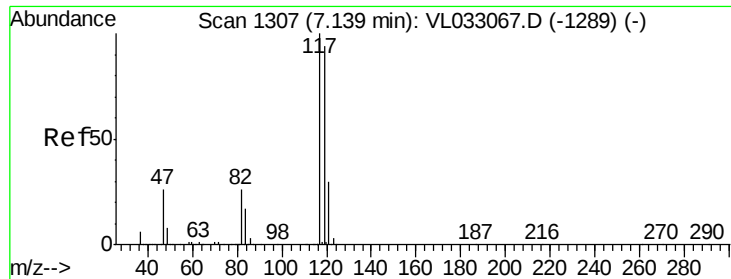
sam
 1/21/2019 8:51:21 AM



#34
 2-Butanone
 Concen: 9.194 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. -0.01 min
 Lab File: VL033111.D
 Acq: 17 Jan 2019 3:50

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.6	18.9	28.3





#35

Carbon Tetrachloride

Concen: 8.788 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA_L

ClientSampled :

IDOC-4

Tgt Ion: 117 Resp: 2155604

Ion Ratio Lower Upper

117 100

119 93.4 76.5 114.7

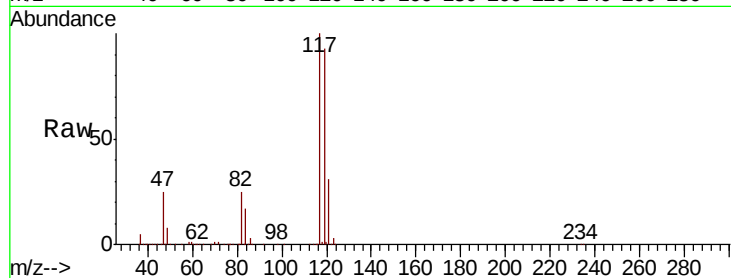
121 30.5 25.2 37.8

Manual Integrations

APPROVED

sam

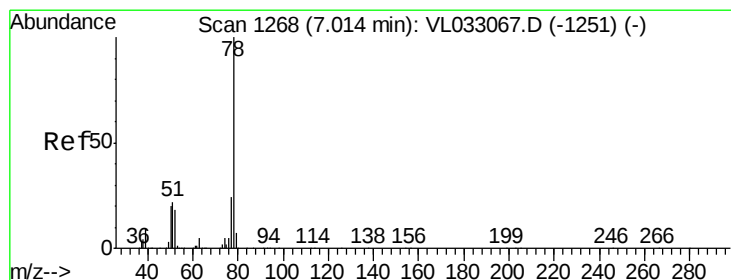
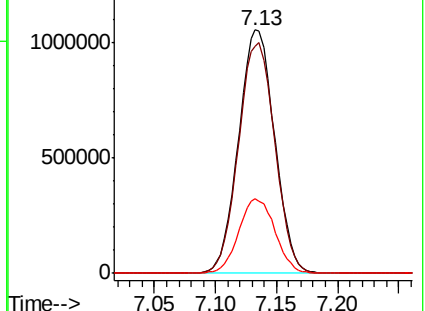
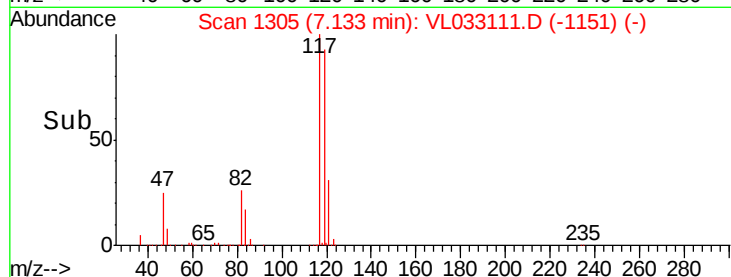
1/21/2019 8:51:21 AM



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: 10.003 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

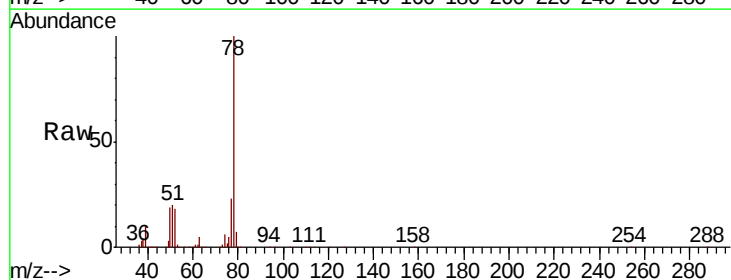
Tgt Ion: 78 Resp: 2339856

Ion Ratio Lower Upper

78 100

77 23.4 18.5 27.7

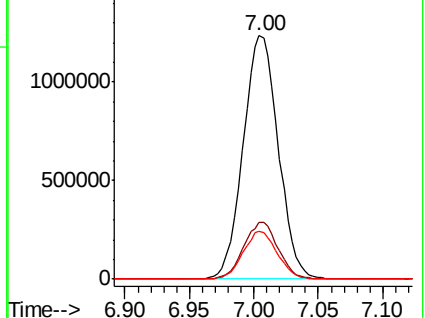
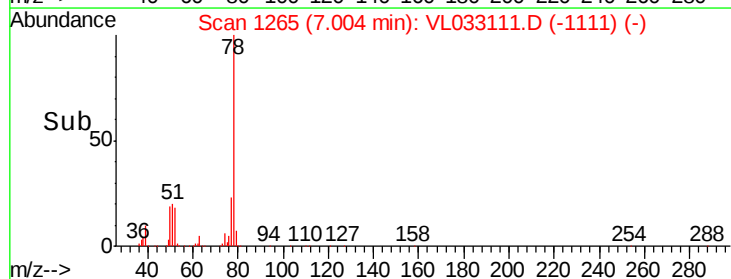
50 19.5 15.7 23.5

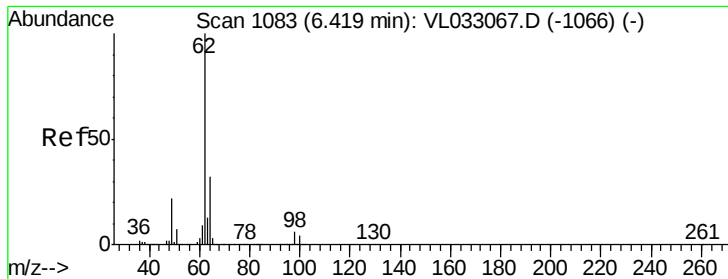


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





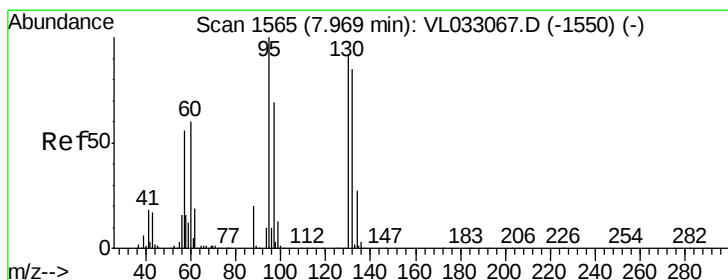
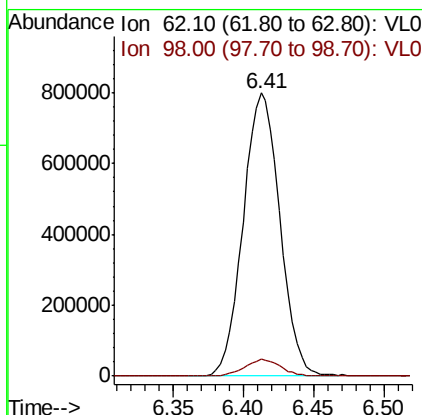
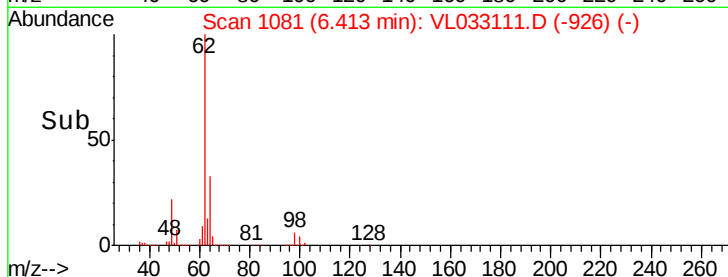
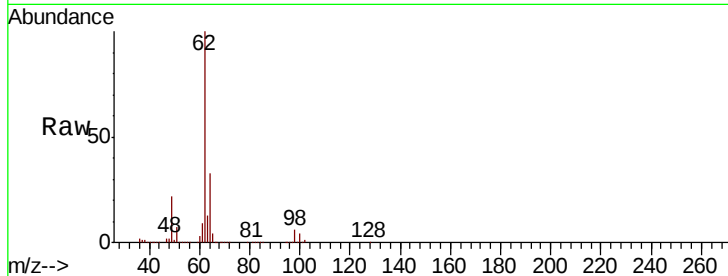
#37
 1,2-Dichloroethane
 Concen: 8.930 ppbv
 RT: 6.41 min Scan# 1081
 Delta R.T. -0.00 min
 Lab File: VL033111.D
 Acq: 17 Jan 2019 3:50

Instrument :
 MSVOA_L
 ClientSampleId :
 IDOC-4

Tgt Ion: 62 Resp: 1458512
 Ion Ratio Lower Upper
 62 100
 98 5.8 4.6 7.0

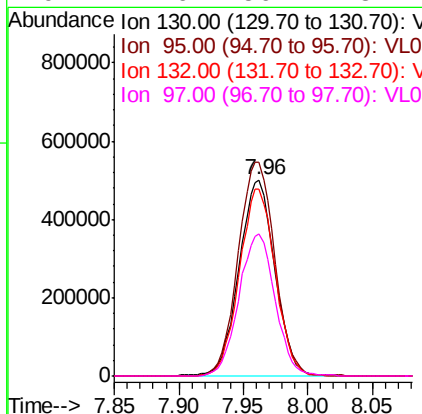
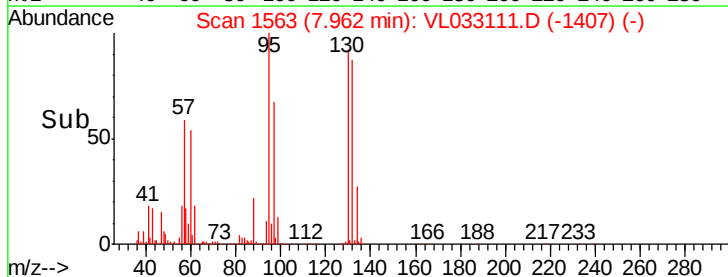
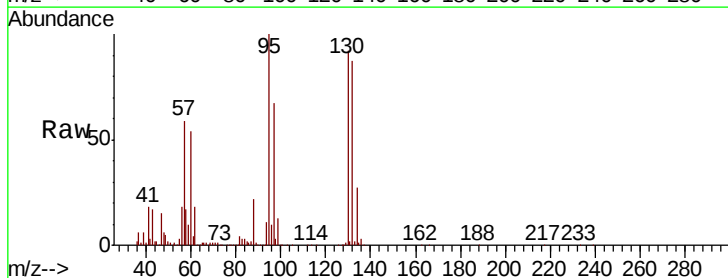
Manual Integrations
 APPROVED

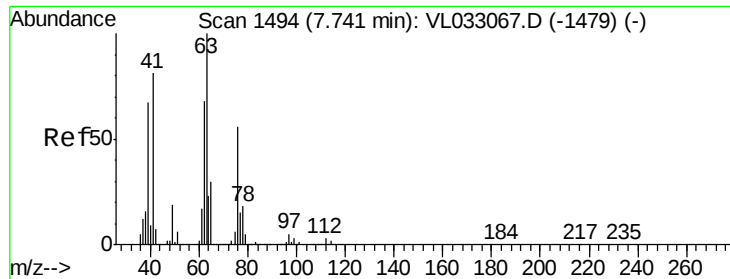
sam
 1/21/2019 8:51:21 AM



#38
 Trichloroethene
 Concen: 10.032 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. 0.00 min
 Lab File: VL033111.D
 Acq: 17 Jan 2019 3:50

Tgt Ion: 130 Resp: 965370
 Ion Ratio Lower Upper
 130 100
 95 108.9 88.6 132.8
 132 95.3 74.2 111.2
 97 72.6 56.2 84.2





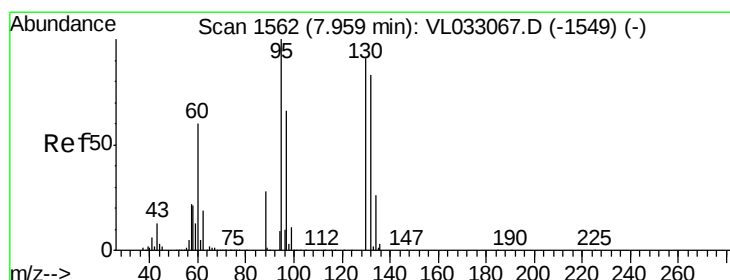
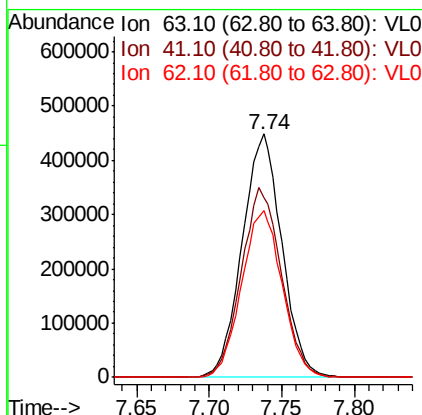
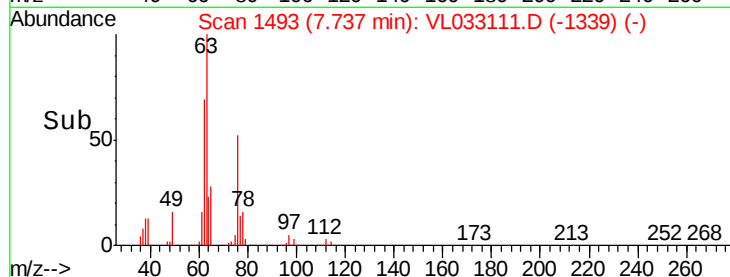
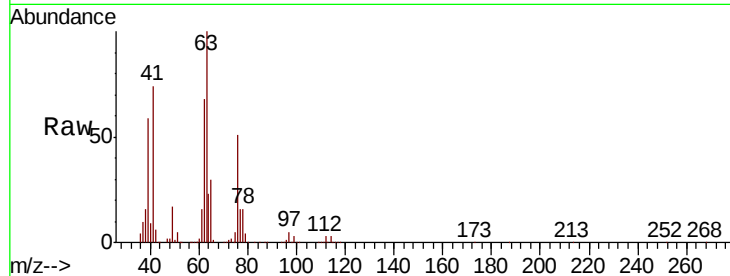
#39
 1,2-Dichloropropane
 Concen: 9.705 ppbv
 RT: 7.74 min Scan# 1493
 Delta R.T. -0.01 min
 Lab File: VL033111.D
 Acq: 17 Jan 2019 3:50

Instrument :
 MSVOA_L
 ClientSampleId :
 IDOC-4

Tgt Ion	Ratio	Lower	Upper
63	100		
41	73.5	61.9	92.9
62	68.3	55.8	83.6

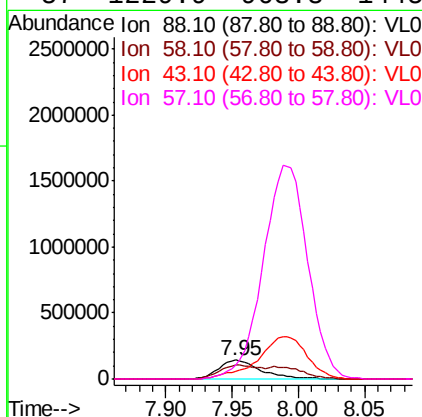
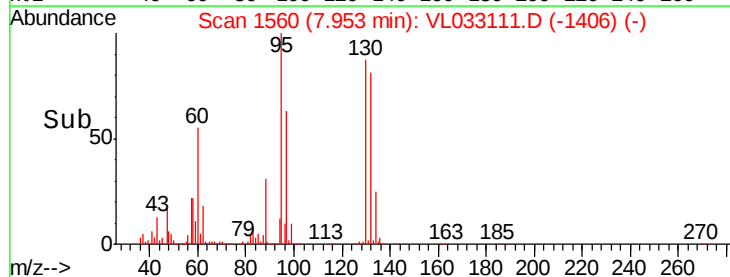
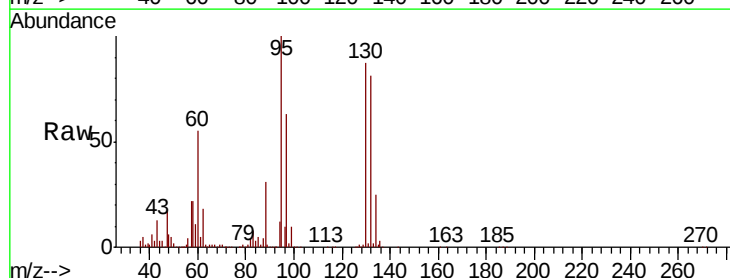
Manual Integrations
 APPROVED

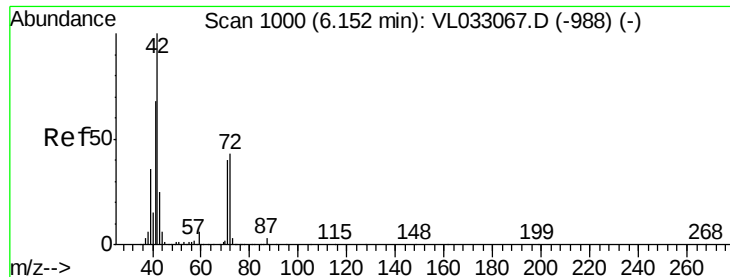
sam
 1/21/2019 8:51:21 AM



#40
 1,4-Dioxane
 Concen: 9.306 ppbv
 RT: 7.95 min Scan# 1560
 Delta R.T. -0.01 min
 Lab File: VL033111.D
 Acq: 17 Jan 2019 3:50

Tgt Ion	Ratio	Lower	Upper
88	100		
58	127.3	101.9	152.9
43	266.5	212.6	319.0
57	1229.9	963.8	1445.6





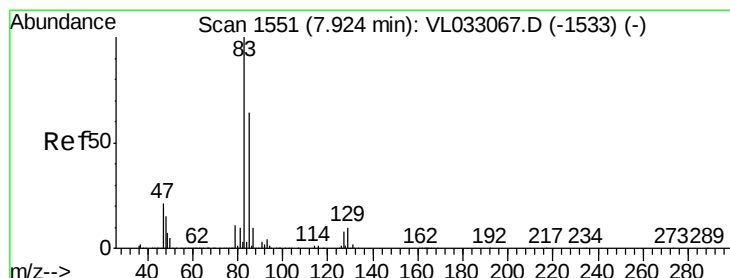
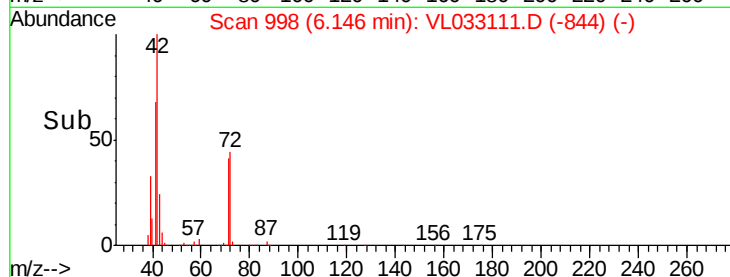
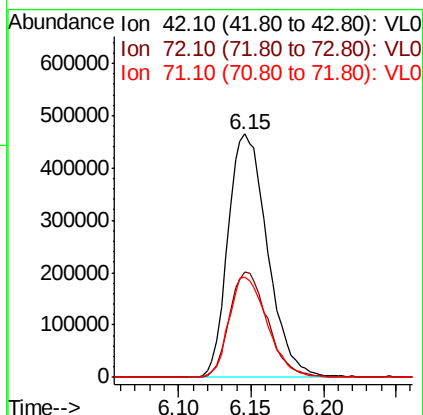
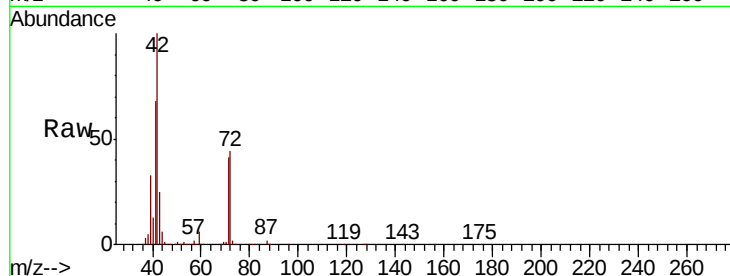
#41
Tetrahydrofuran
Concen: 10.379 ppbv
RT: 6.15 min Scan# 998
Delta R.T. -0.01 min
Lab File: VL033111.D
Acq: 17 Jan 2019 3:50

Instrument :
MSVOA_L
ClientSampleId :
IDOC-4

Tgt Ion	Ratio	Lower	Upper
42	100		
72	42.1	32.9	49.3
71	40.2	31.8	47.6

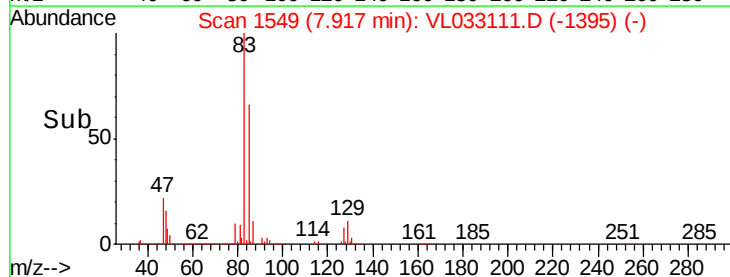
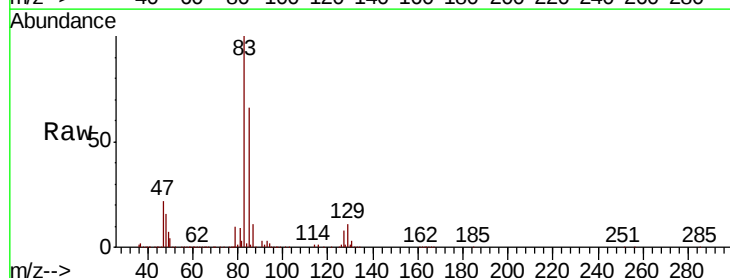
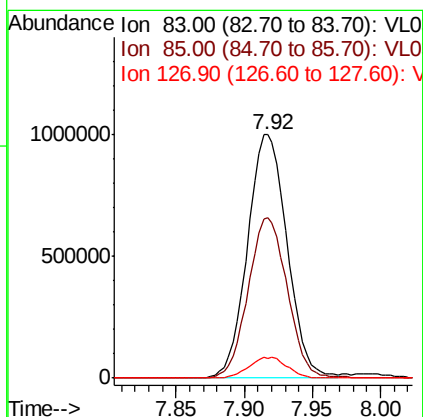
Manual Integrations
APPROVED

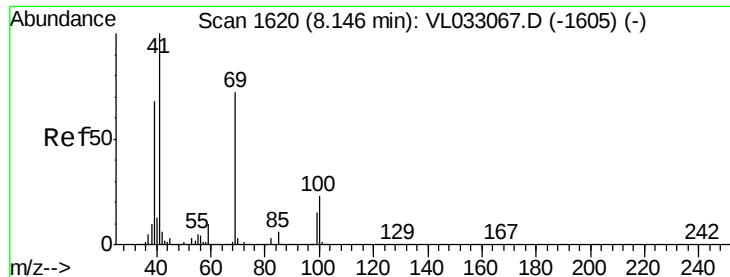
sam
1/21/2019 8:51:21 AM



#42
Bromodichloromethane
Concen: 8.970 ppbv
RT: 7.92 min Scan# 1549
Delta R.T. -0.01 min
Lab File: VL033111.D
Acq: 17 Jan 2019 3:50

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.8	51.0	76.4
127	8.3	6.5	9.7





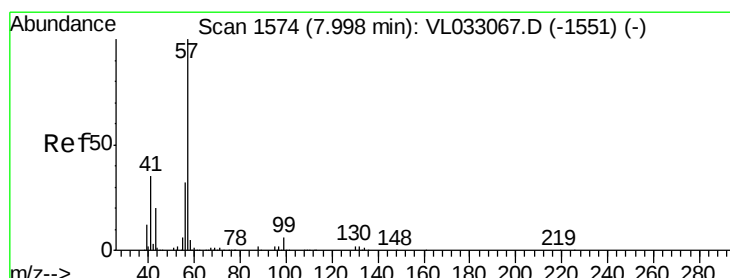
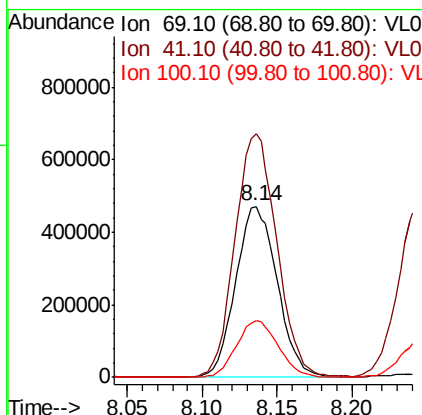
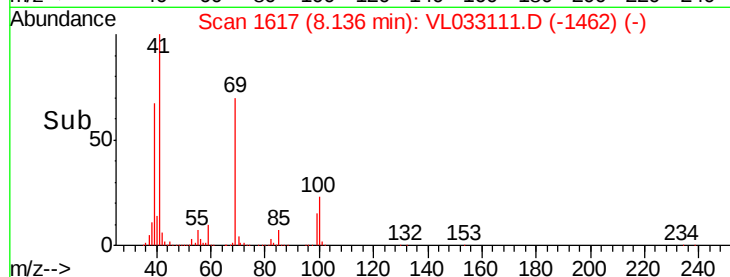
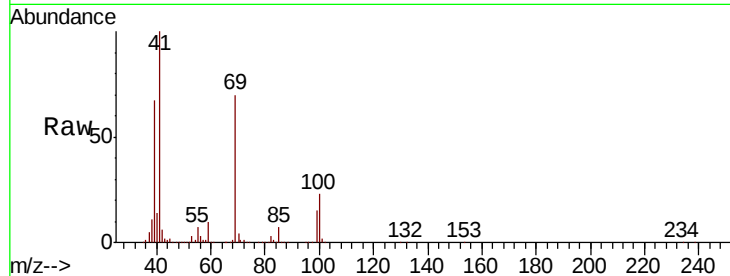
#43
Methyl Methacrylate
Concen: 10.373 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. -0.00 min
Lab File: VL033111.D
Acq: 17 Jan 2019 3:50

Instrument :
MSVOA_L
ClientSampleId :
IDOC-4

Tgt Ion: 69 Resp: 910520
Ion Ratio Lower Upper
69 100
41 143.2 114.0 171.0
100 33.3 26.3 39.5

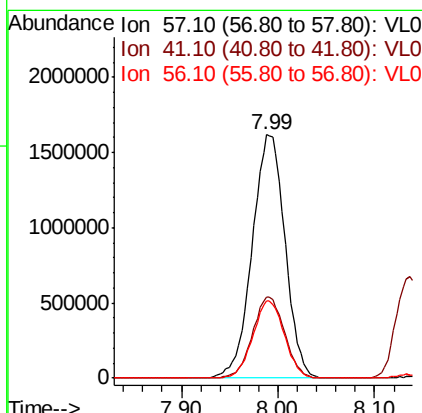
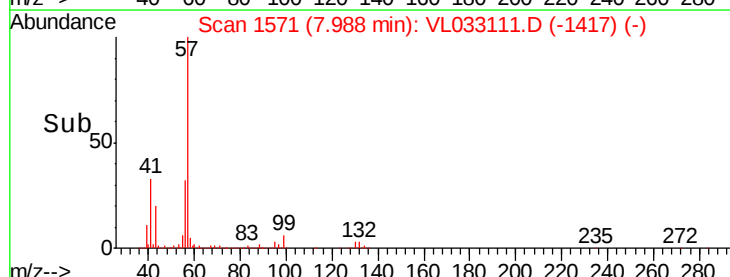
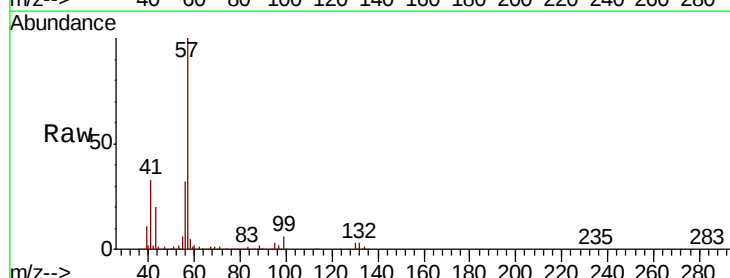
Manual Integrations
APPROVED

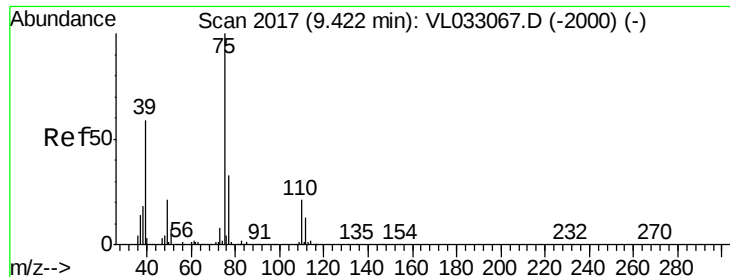
sam
1/21/2019 8:51:21 AM



#44
2,2,4-Trimethylpentane
Concen: 9.629 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. -0.01 min
Lab File: VL033111.D
Acq: 17 Jan 2019 3:50

Tgt Ion: 57 Resp: 3814482
Ion Ratio Lower Upper
57 100
41 32.5 26.2 39.2
56 30.5 24.9 37.3





#45

t-1,3-Dichloropropene

Concen: 11.199 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA_L

ClientSampleId :

IDOC-4

Tgt Ion: 75 Resp: 1223605

Ion Ratio Lower Upper

75 100

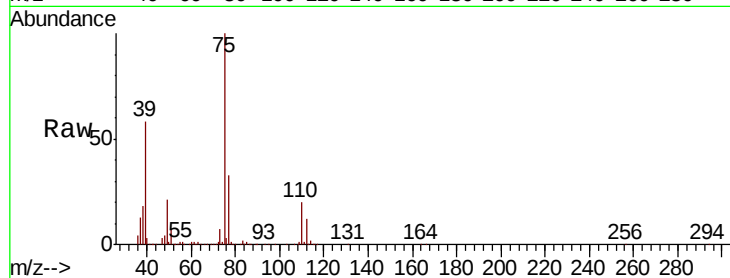
77 32.8 24.8 37.2

Manual Integrations

APPROVED

sam

1/21/2019 8:51:21 AM



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

600000

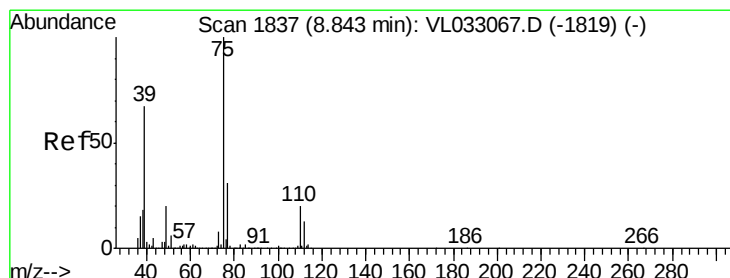
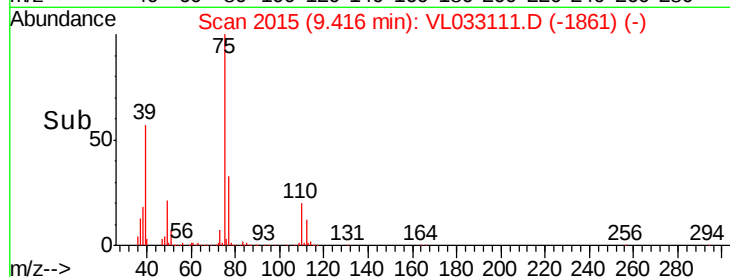
400000

200000

0

9.35 9.40 9.45 9.50

Time-->



#46

cis-1,3-Dichloropropene

Concen: 11.480 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

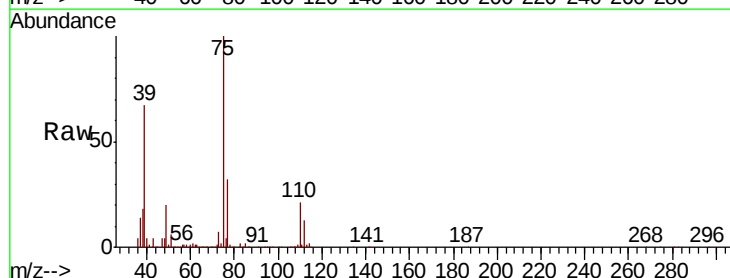
Tgt Ion: 75 Resp: 1431644

Ion Ratio Lower Upper

75 100

39 66.8 51.3 76.9

77 31.7 25.5 38.3



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

1000000

800000

600000

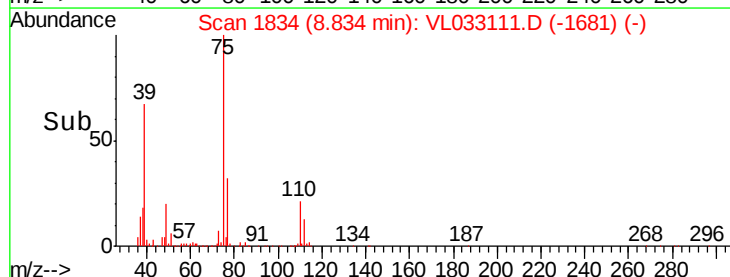
400000

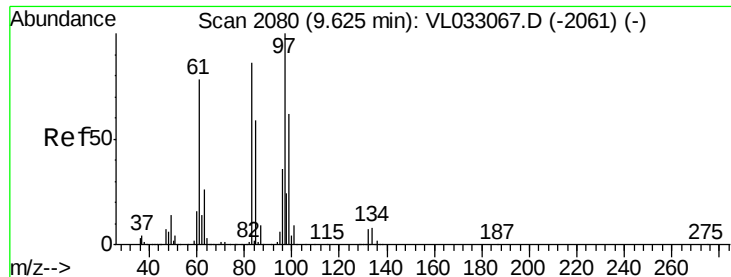
200000

0

8.75 8.80 8.85 8.90 8.95

Time-->





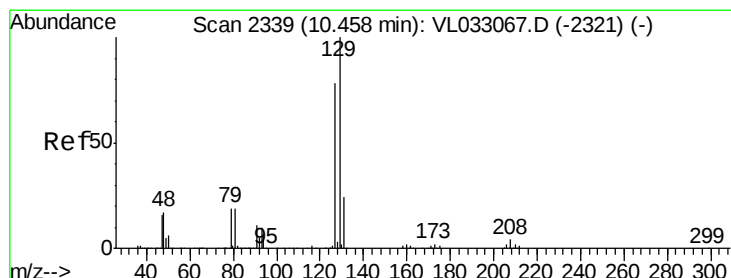
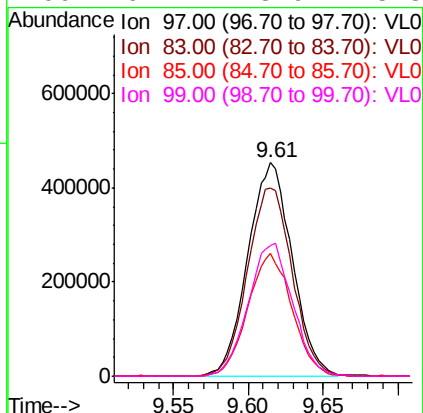
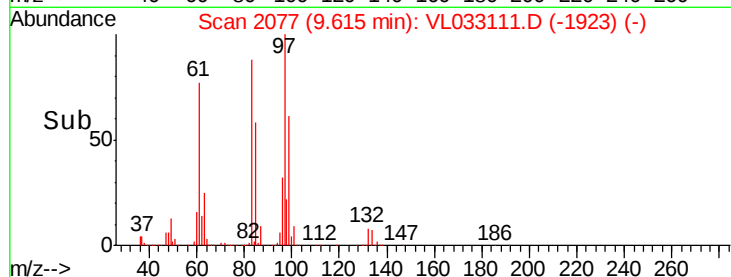
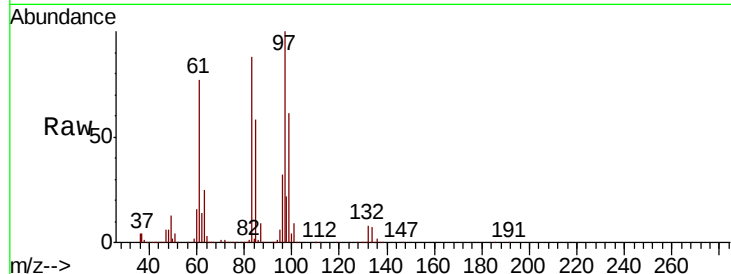
#47
 1,1,2-Trichloroethane
 Concen: 9.110 ppbv
 RT: 9.61 min Scan# 2077
 Delta R.T. -0.01 min
 Lab File: VL033111.D
 Acq: 17 Jan 2019 3:50

Instrument :
 MSVOA_L
 ClientSampleId :
 IDOC-4

Tgt Ion	Ratio	Lower	Upper
97	100		
83	88.3	69.4	104.2
85	57.6	44.2	66.2
99	61.4	48.9	73.3

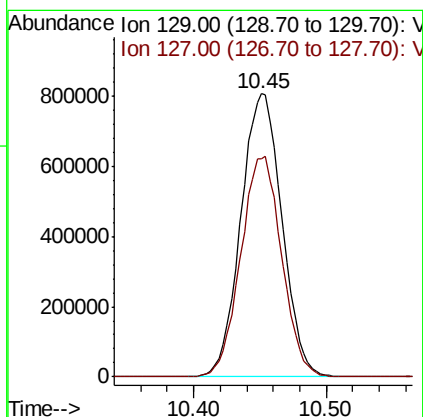
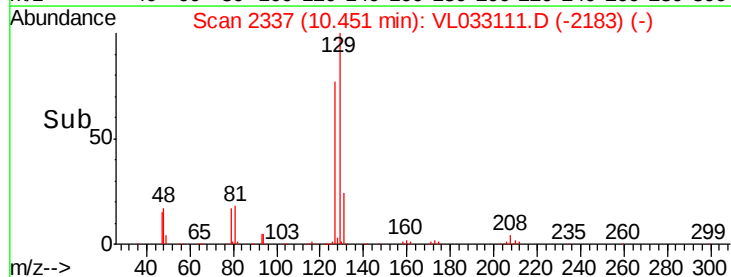
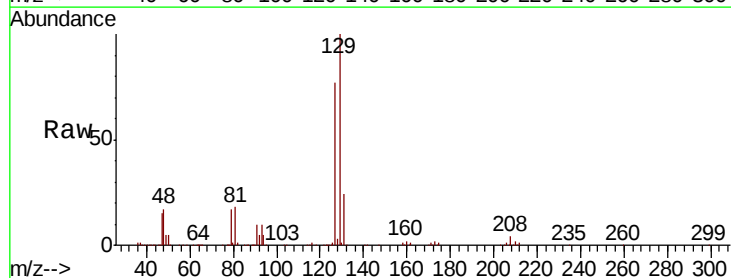
Manual Integrations
 APPROVED

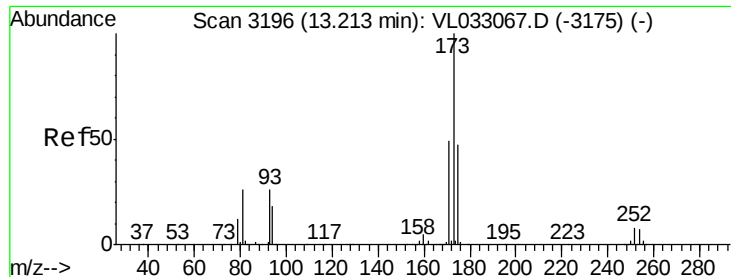
sam
 1/21/2019 8:51:21 AM



#48
 Dibromochloromethane
 Concen: 9.552 ppbv
 RT: 10.45 min Scan# 2337
 Delta R.T. -0.01 min
 Lab File: VL033111.D
 Acq: 17 Jan 2019 3:50

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.9	39.1	117.3





#49

Bromoform

Concen: 8.692 ppbv

RT: 13.20 min Scan# 3192

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA_L

ClientSampled :

IDOC-4

Tgt Ion:173 Resp: 1377644

Ion Ratio Lower Upper

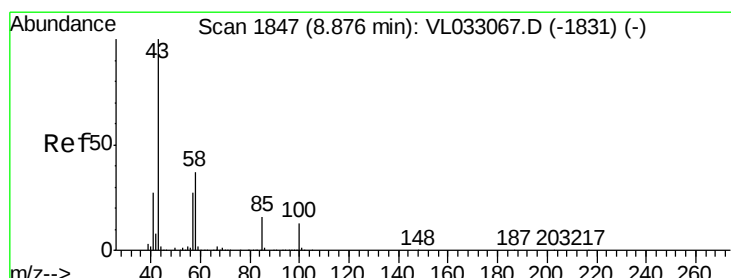
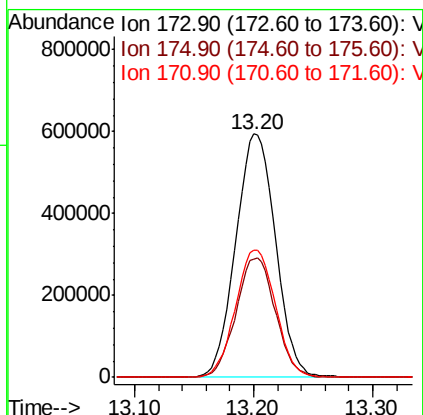
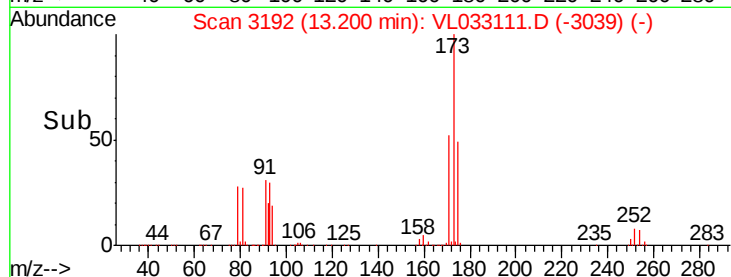
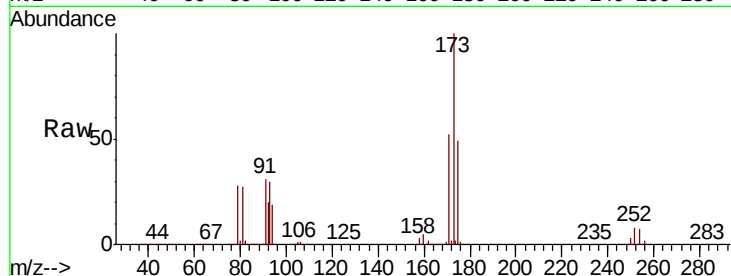
173 100

175 48.5 39.4 59.2

171 52.5 42.1 63.1

Manual Integrations
APPROVED

sam
1/21/2019 8:51:21 AM



#50

4-Methyl-2-Pentanone

Concen: 10.228 ppbv

RT: 8.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: VL033111.D

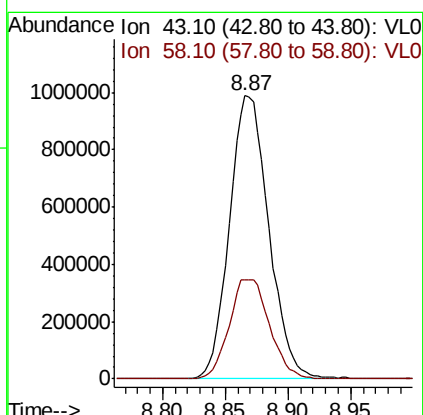
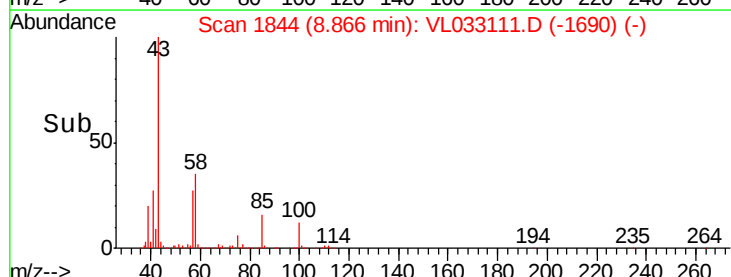
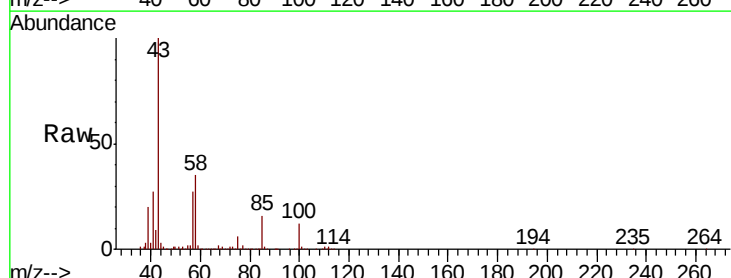
Acq: 17 Jan 2019 3:50

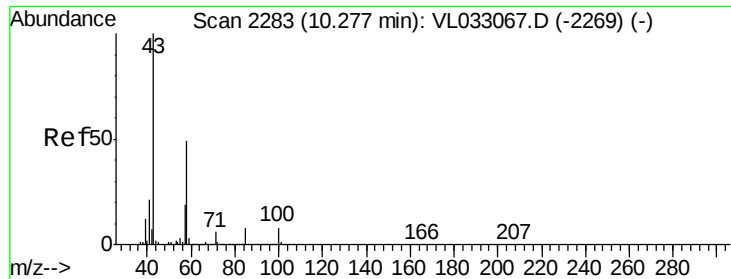
Tgt Ion: 43 Resp: 2150372

Ion Ratio Lower Upper

43 100

58 36.2 28.9 43.3





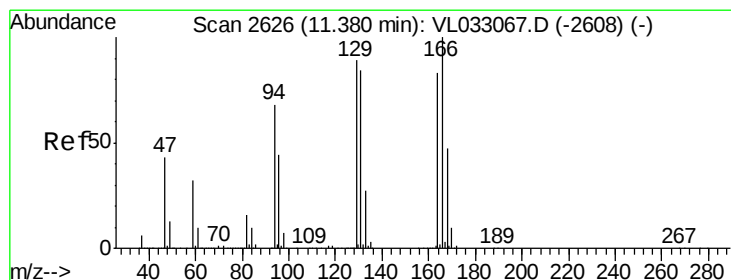
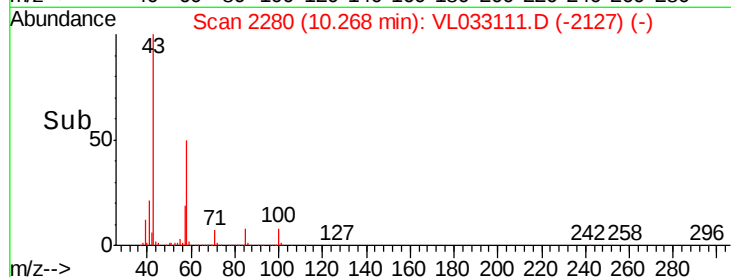
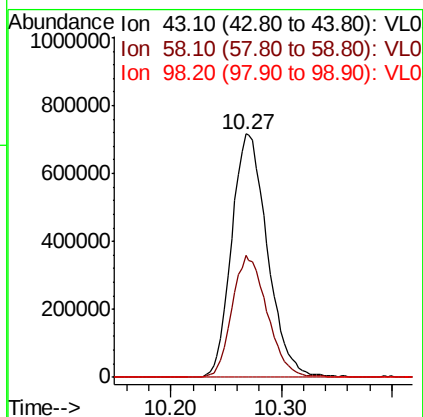
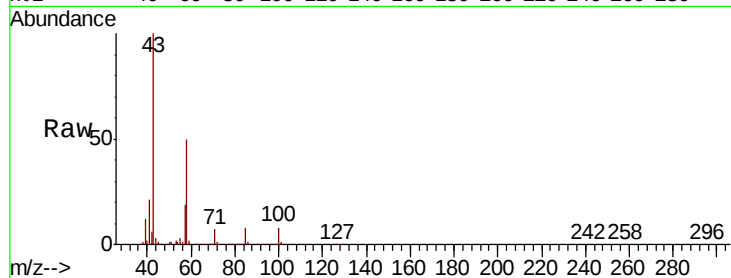
#51
2-Hexanone
Concen: 10.593 ppbv
RT: 10.27 min Scan# 2280
Delta R.T. -0.01 min
Lab File: VL033111.D
Acq: 17 Jan 2019 3:50

Instrument :
MSVOA_L
ClientSampleId :
IDOC-4

Tgt Ion: 43 Resp: 1611504
Ion Ratio Lower Upper
43 100
58 49.2 39.0 58.6
98 0.3 0.4 0.6#

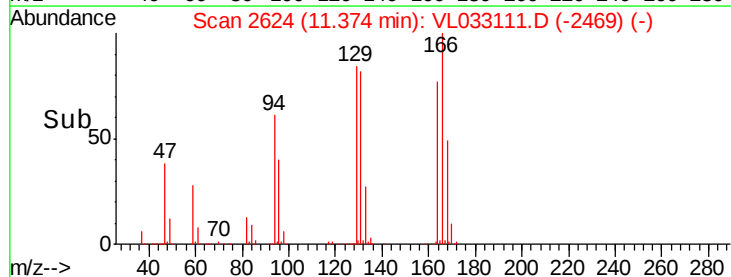
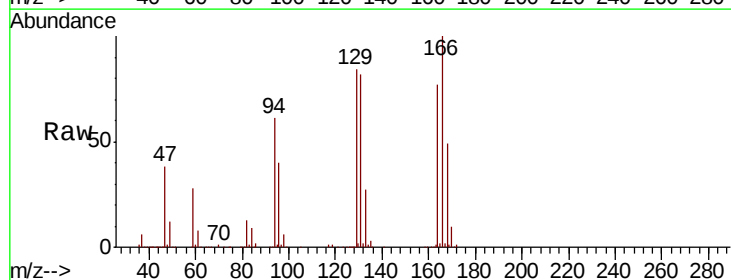
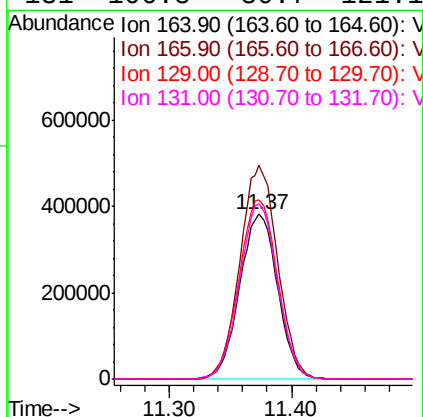
Manual Integrations
APPROVED

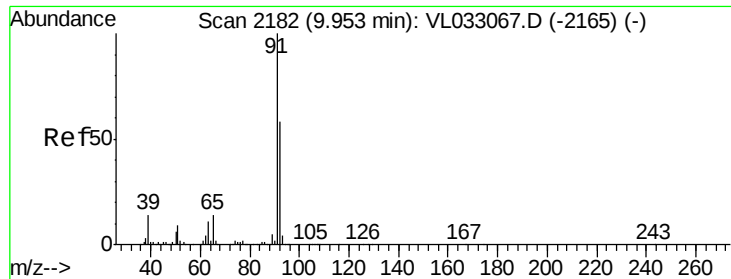
sam
1/21/2019 8:51:21 AM



#52
Tetrachloroethene
Concen: 9.879 ppbv
RT: 11.37 min Scan# 2624
Delta R.T. -0.00 min
Lab File: VL033111.D
Acq: 17 Jan 2019 3:50

Tgt Ion: 164 Resp: 816833
Ion Ratio Lower Upper
164 100
166 129.7 100.8 151.2
129 108.7 84.6 126.8
131 106.8 80.7 121.1





#53

Toluene

Concen: 10.633 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA_L

ClientSampleId :

IDOC-4

Tgt Ion: 91 Resp: 2665601

Ion Ratio Lower Upper

91 100

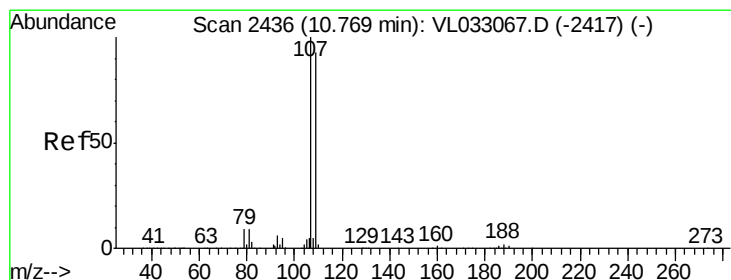
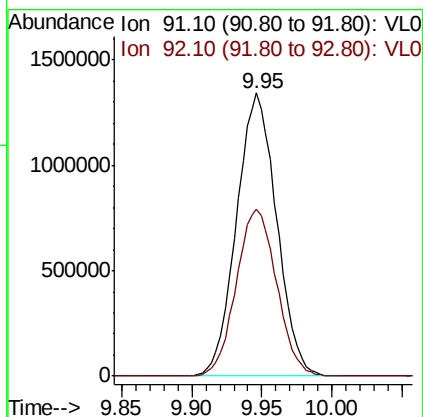
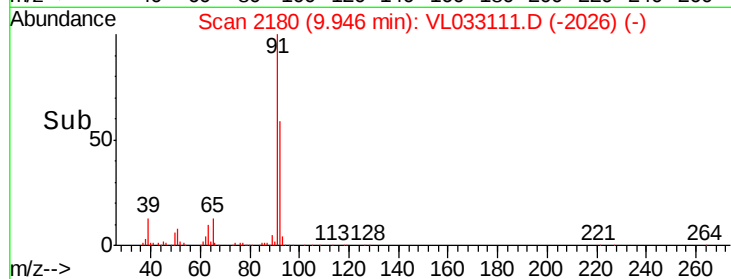
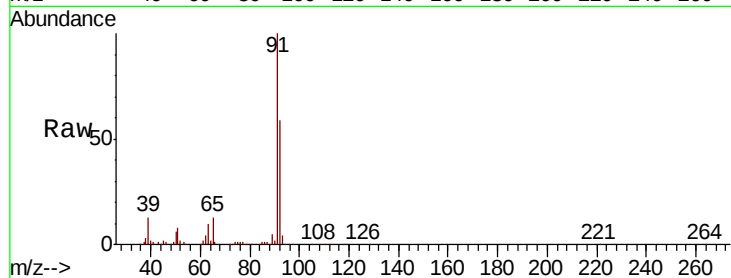
92 60.0 47.7 71.5

Manual Integrations

APPROVED

sam

1/21/2019 8:51:21 AM



#54

1,2-Dibromoethane

Concen: 9.803 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. -0.01 min

Lab File: VL033111.D

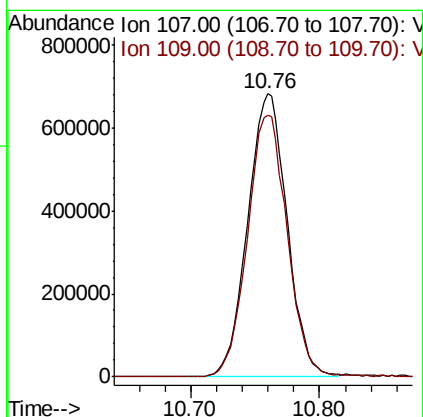
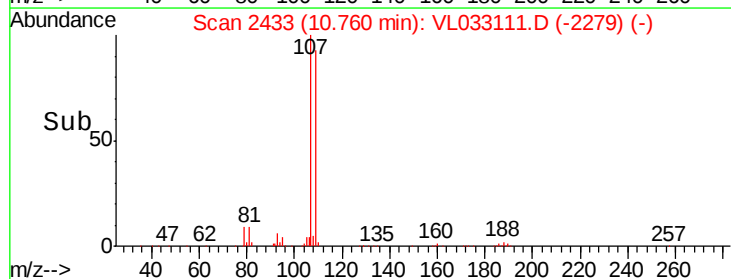
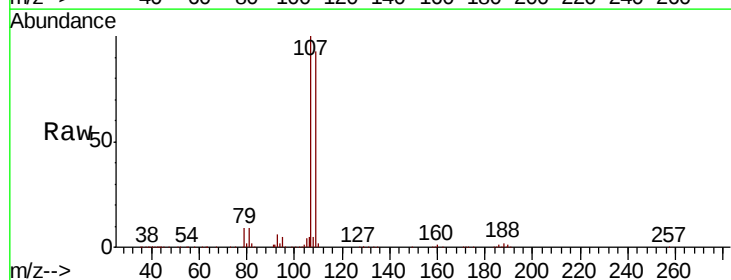
Acq: 17 Jan 2019 3:50

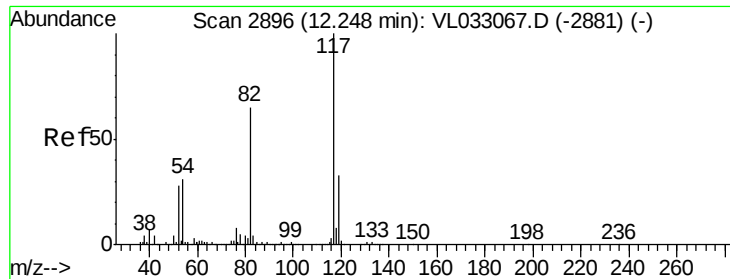
Tgt Ion: 107 Resp: 1450124

Ion Ratio Lower Upper

107 100

109 92.6 74.9 112.3





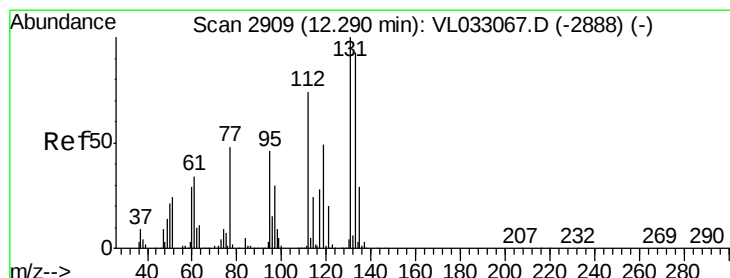
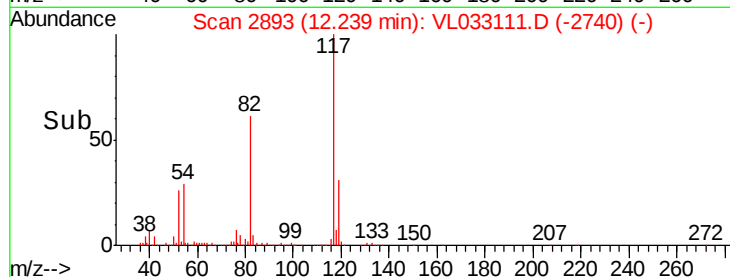
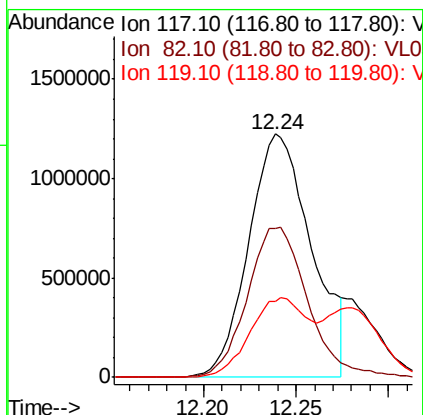
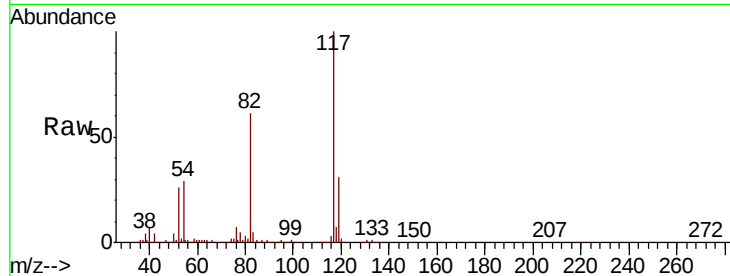
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL033111.D
Acq: 17 Jan 2019 3:50

Instrument :
MSVOA_L
ClientSampleId :
IDOC-4

Tgt Ion:117 Resp: 2894795
Ion Ratio Lower Upper
117 100
82 59.5 48.9 73.3
119 32.3 24.6 37.0

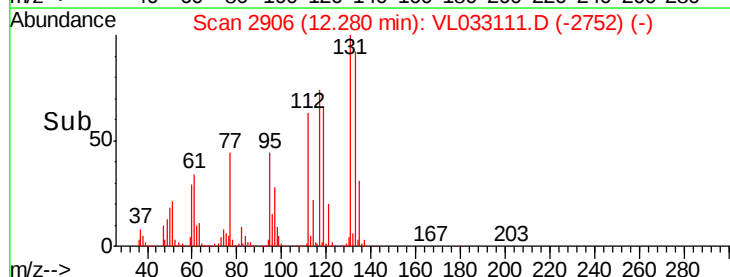
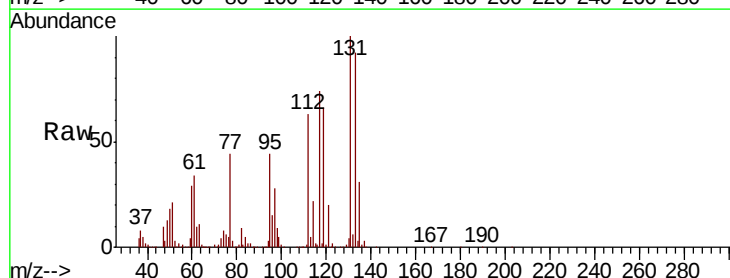
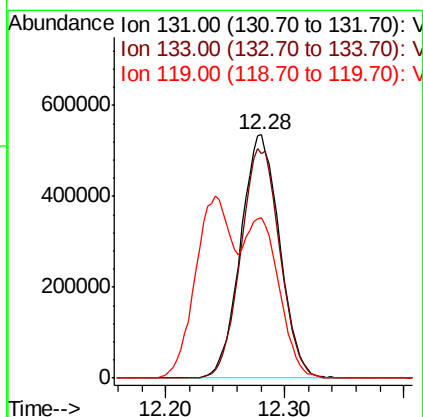
Manual Integrations
APPROVED

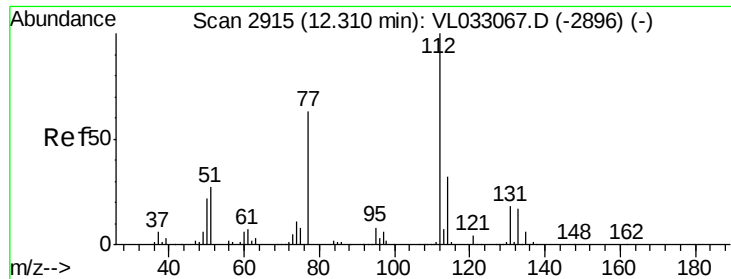
sam
1/21/2019 8:51:21 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 8.100 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. -0.01 min
Lab File: VL033111.D
Acq: 17 Jan 2019 3:50

Tgt Ion:131 Resp: 1211596
Ion Ratio Lower Upper
131 100
133 94.9 76.0 114.0
119 59.5 44.2 66.2





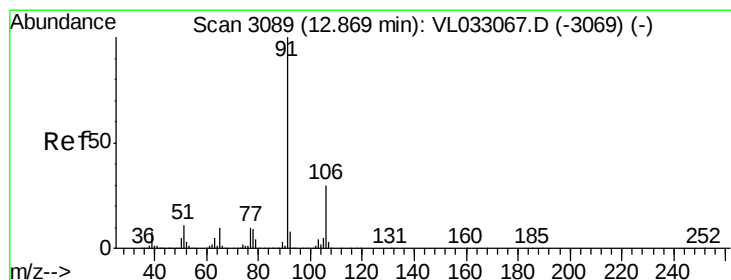
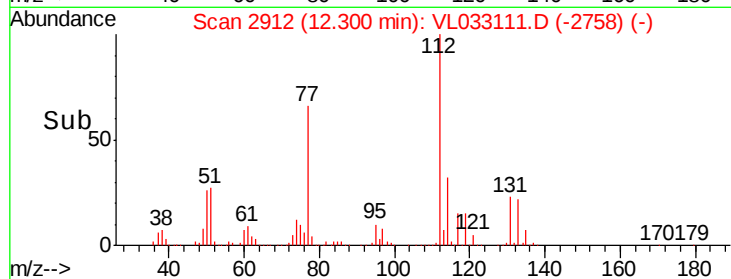
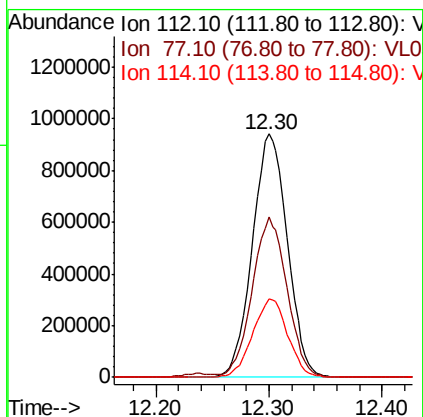
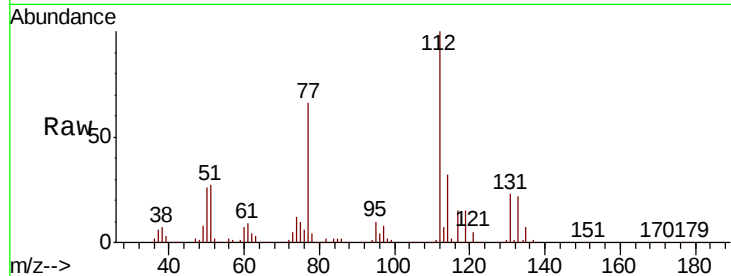
#57
Chlorobenzene
Concen: 8.378 ppbv
RT: 12.30 min Scan# 2912
Delta R.T. -0.01 min
Lab File: VL033111.D
Acq: 17 Jan 2019 3:50

Instrument :
MSVOA_L
ClientSampleId :
IDOC-4

Tgt Ion: 112 Resp: 2024318
Ion Ratio Lower Upper
112 100
77 65.9 53.4 80.0
114 32.0 30.0 36.6

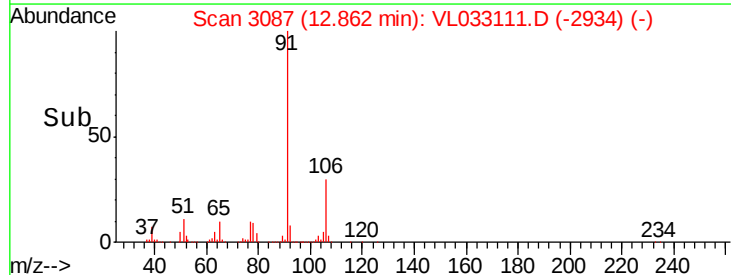
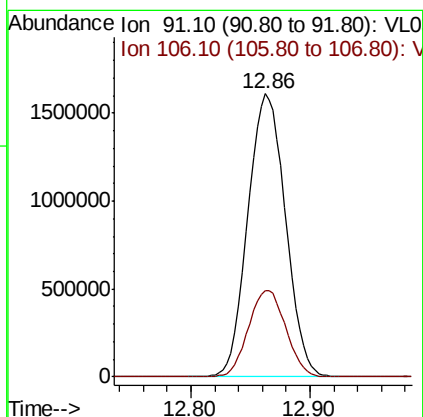
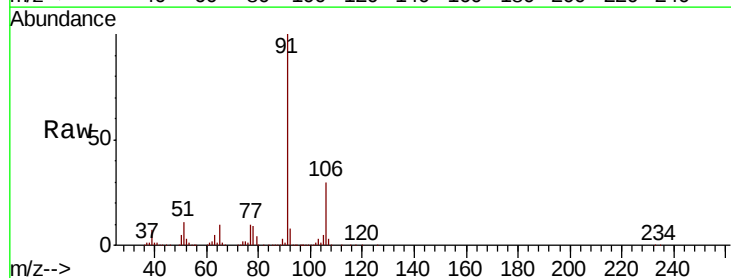
Manual Integrations
APPROVED

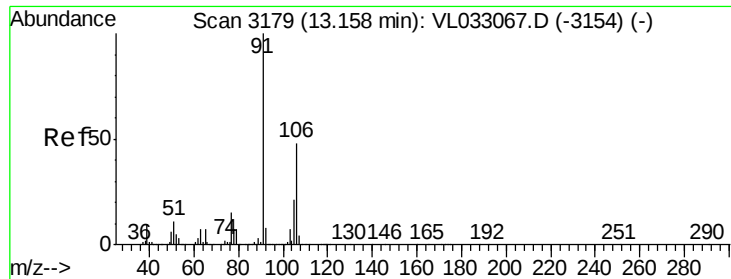
sam
1/21/2019 8:51:21 AM



#58
Ethyl Benzene
Concen: 9.658 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. -0.01 min
Lab File: VL033111.D
Acq: 17 Jan 2019 3:50

Tgt Ion: 91 Resp: 3530021
Ion Ratio Lower Upper
91 100
106 30.5 24.3 36.5





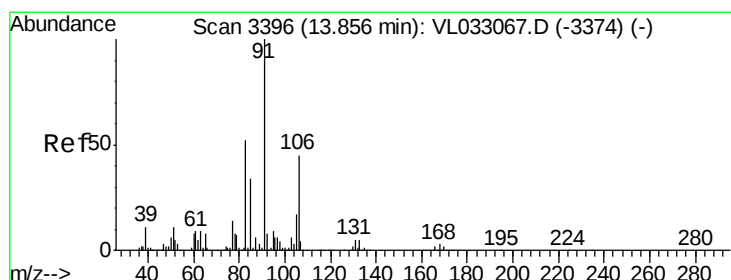
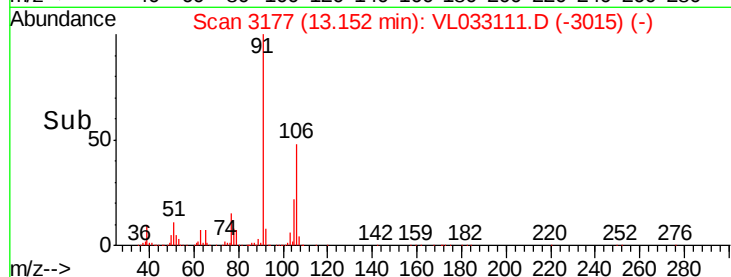
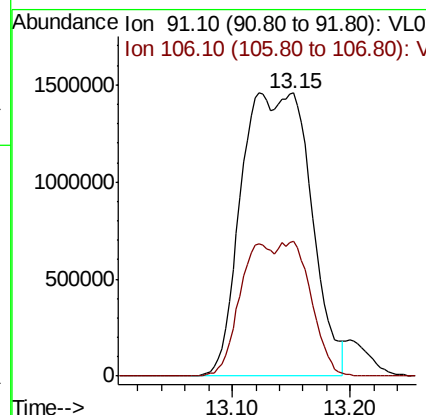
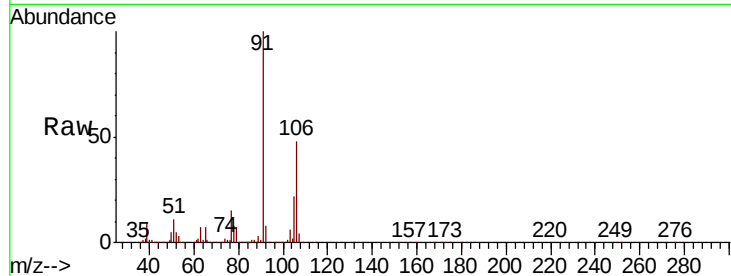
#59
m/p-Xylene
Concen: 17.557 ppbv m
RT: 13.15 min Scan# 3177
Delta R.T. 0.02 min
Lab File: VL033111.D
Acq: 17 Jan 2019 3:50

Instrument :
MSVOA_L
ClientSampled :
IDOC-4

Tgt Ion: 91 Resp: 5936143
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

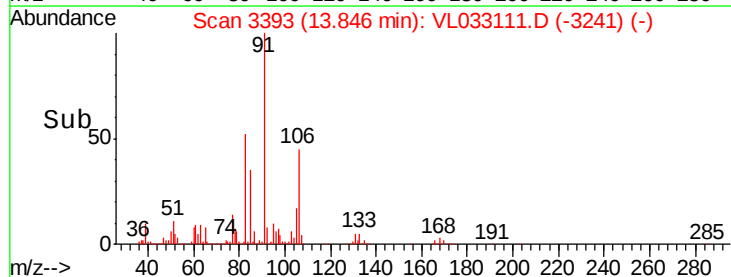
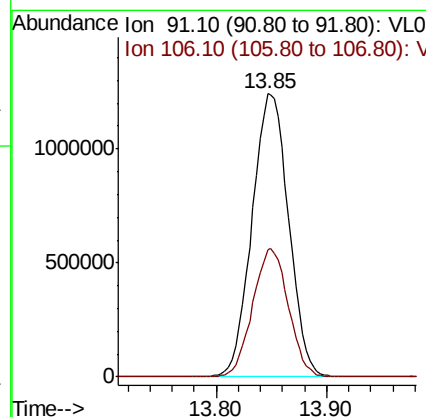
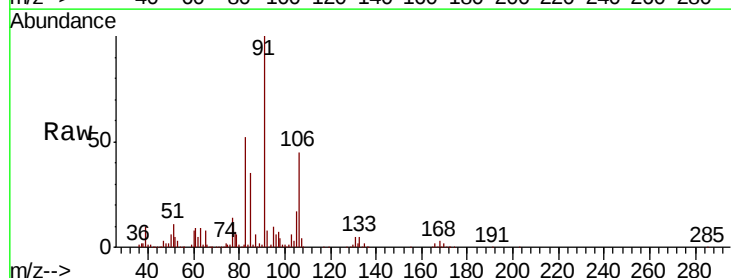
Manual Integrations
APPROVED

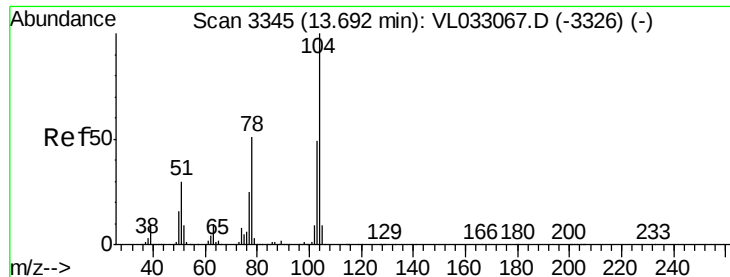
sam
1/21/2019 8:51:21 AM



#60
o-Xylene
Concen: 8.610 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL033111.D
Acq: 17 Jan 2019 3:50

Tgt Ion: 91 Resp: 2849962
Ion Ratio Lower Upper
91 100
106 44.3 22.1 66.5





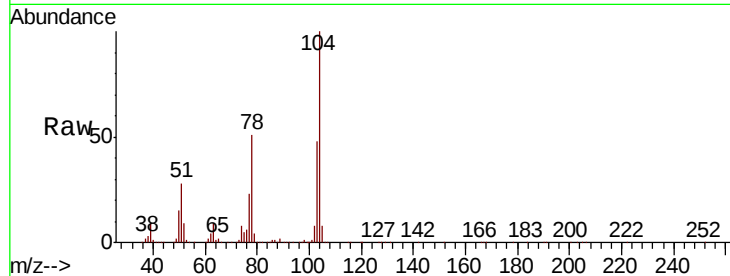
#61
Styrene
Concen: 10.023 ppbv
RT: 13.69 min Scan# 3343
Delta R.T. -0.01 min
Lab File: VL033111.D
Acq: 17 Jan 2019 3:50

Instrument :
MSVOA_L
ClientSampled :
IDOC-4

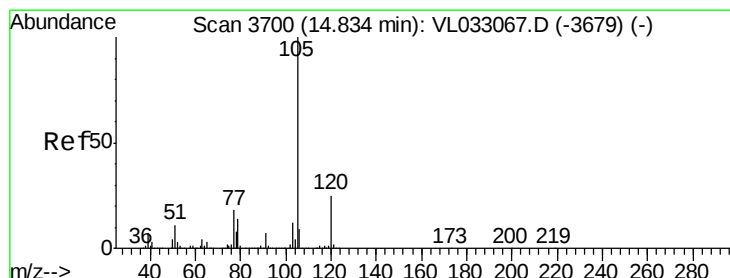
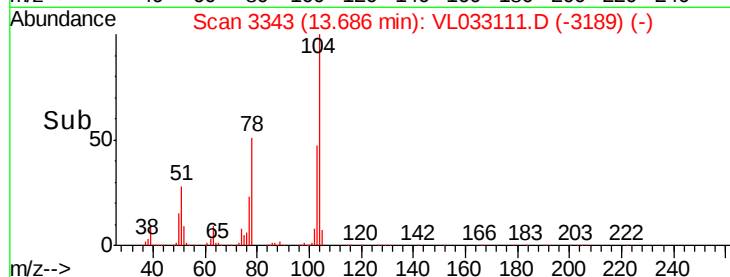
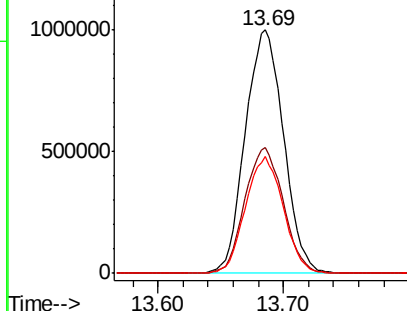
Tgt Ion	Ratio	Lower	Upper
104	100		
78	52.0	41.6	62.4
103	47.3	38.1	57.1

Manual Integrations
APPROVED

sam
1/21/2019 8:51:21 AM

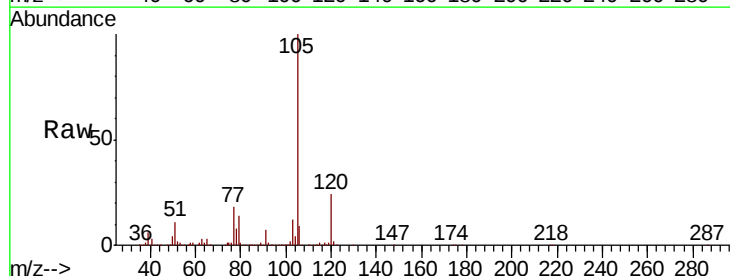


Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VL0
Ion 103.10 (102.80 to 103.80): V

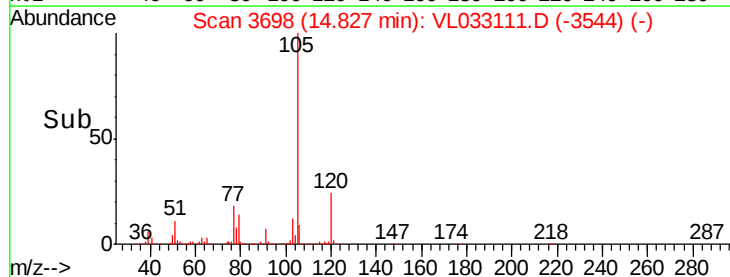
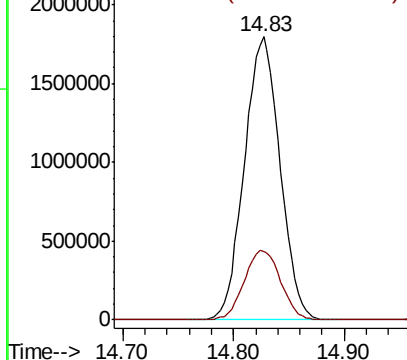


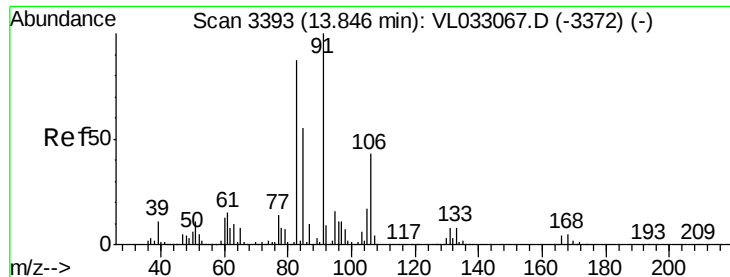
#62
Isopropylbenzene
Concen: 8.539 ppbv
RT: 14.83 min Scan# 3698
Delta R.T. -0.01 min
Lab File: VL033111.D
Acq: 17 Jan 2019 3:50

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.1	20.4	30.6



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





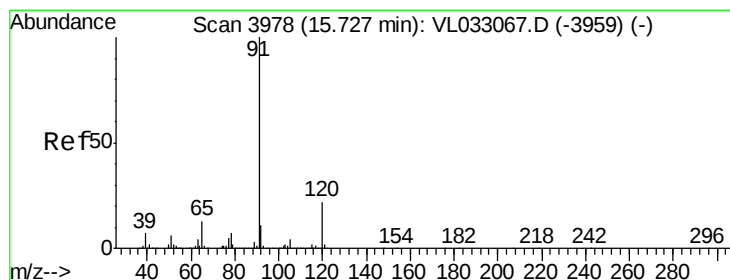
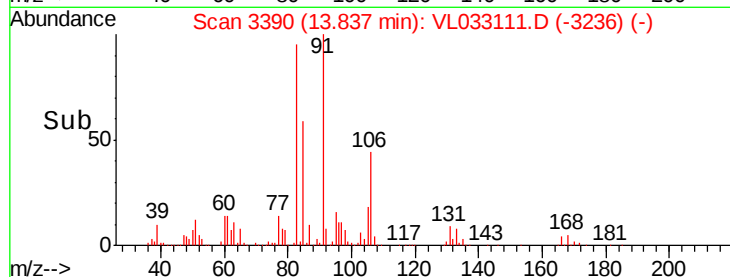
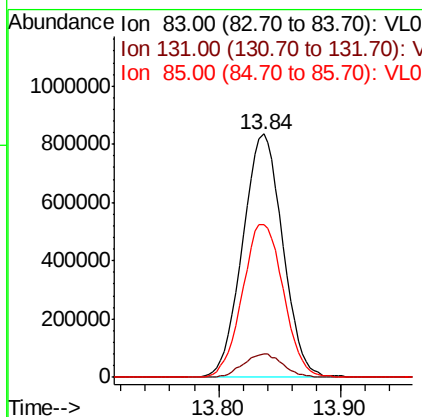
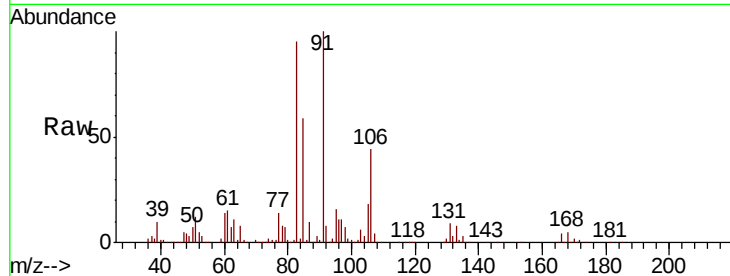
#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.709 ppbv
 RT: 13.84 min Scan# 3390
 Delta R.T. -0.01 min
 Lab File: VL033111.D
 Acq: 17 Jan 2019 3:50

Instrument :
 MSVOA_L
 ClientSampled :
 IDOC-4

Tgt Ion: 83 Resp: 1895510
 Ion Ratio Lower Upper
 83 100
 131 9.6 4.8 14.4
 85 64.4 32.6 97.8

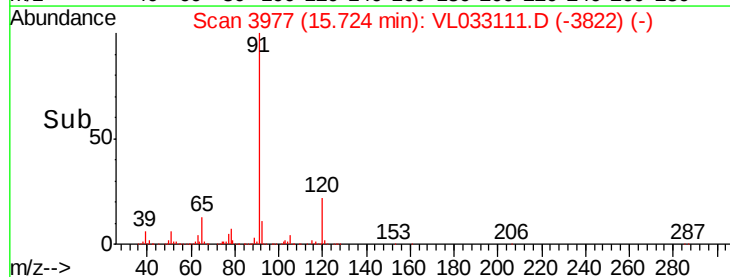
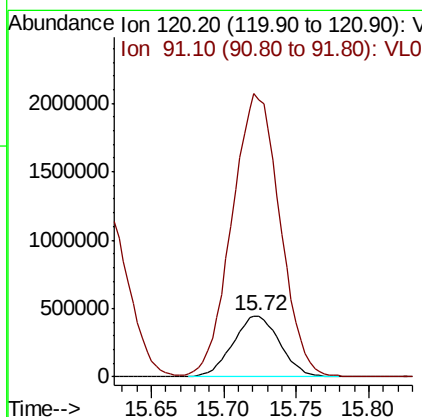
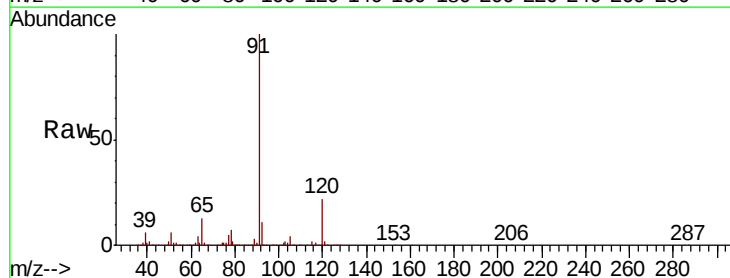
Manual Integrations
 APPROVED

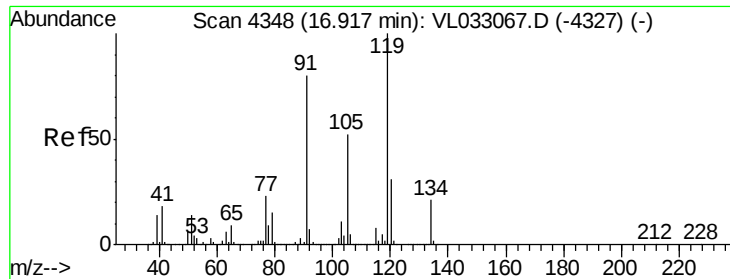
sam
 1/21/2019 8:51:21 AM



#64
 n-propylbenzene
 Concen: 8.363 ppbv
 RT: 15.72 min Scan# 3977
 Delta R.T. -0.00 min
 Lab File: VL033111.D
 Acq: 17 Jan 2019 3:50

Tgt Ion: 120 Resp: 1000815
 Ion Ratio Lower Upper
 120 100
 91 478.3 378.7 568.1





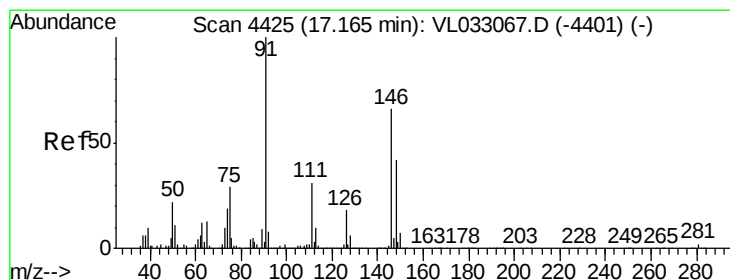
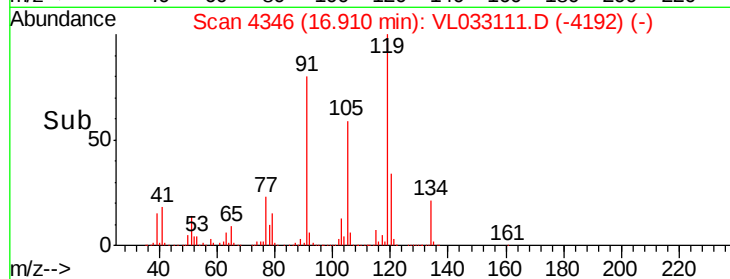
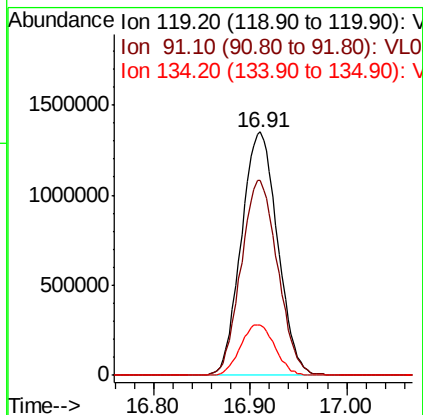
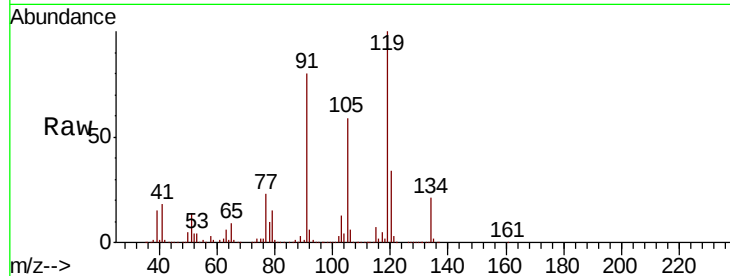
#65
tert-Butylbenzene
Concen: 8.424 ppbv
RT: 16.91 min Scan# 4346
Delta R.T. -0.01 min
Lab File: VL033111.D
Acq: 17 Jan 2019 3:50

Instrument :
MSVOA_L
ClientSampled :
IDOC-4

Tgt Ion: 119 Resp: 3514783
Ion Ratio Lower Upper
119 100
91 81.1 64.6 97.0
134 19.8 15.8 23.8

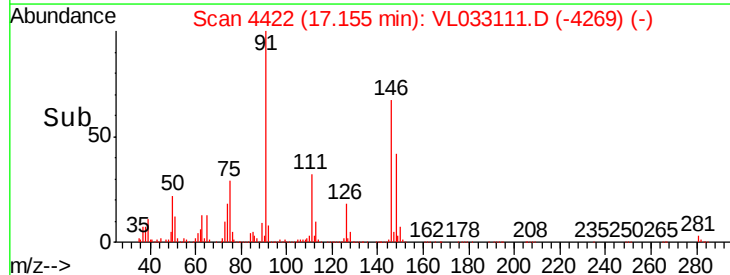
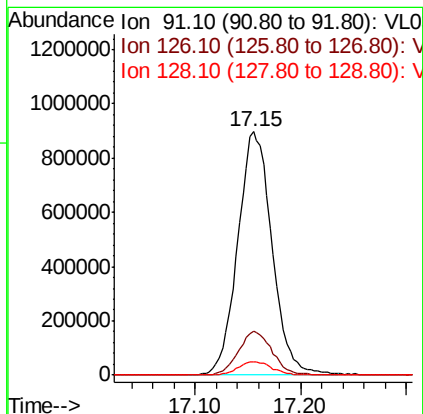
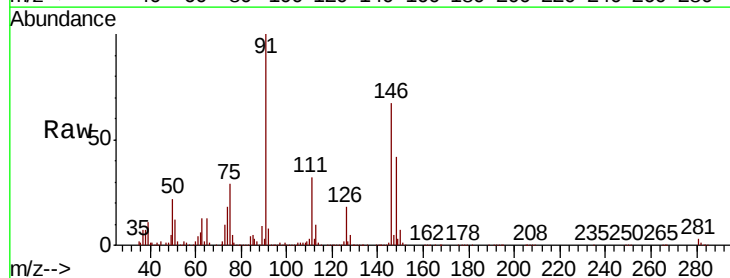
Manual Integrations
APPROVED

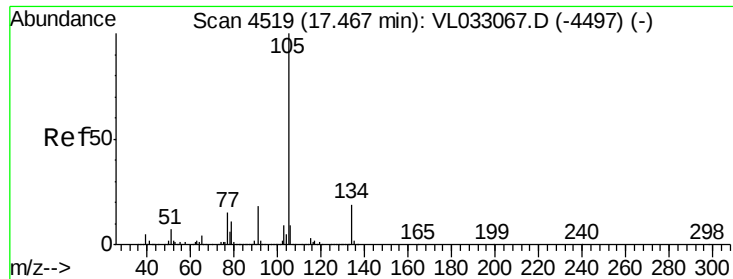
sam
1/21/2019 8:51:21 AM



#66
Benzyl Chloride
Concen: 8.531 ppbv
RT: 17.15 min Scan# 4422
Delta R.T. -0.01 min
Lab File: VL033111.D
Acq: 17 Jan 2019 3:50

Tgt Ion: 91 Resp: 2028678
Ion Ratio Lower Upper
91 100
126 17.8 14.4 21.6
128 5.7 4.5 6.7





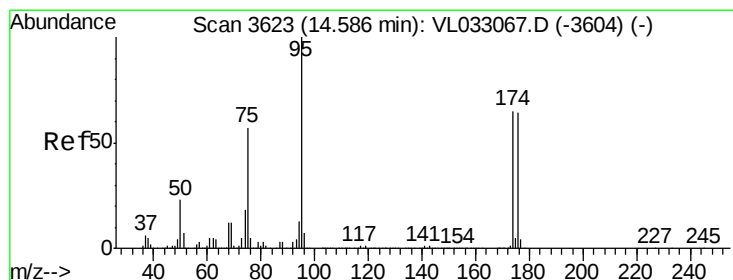
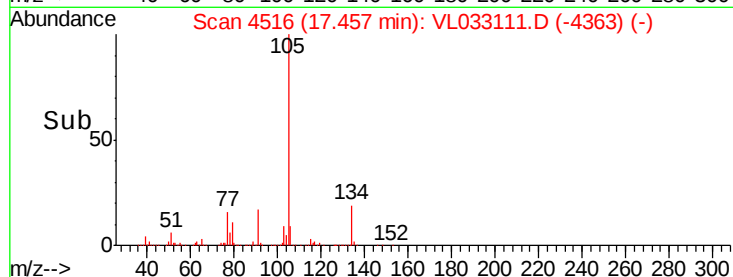
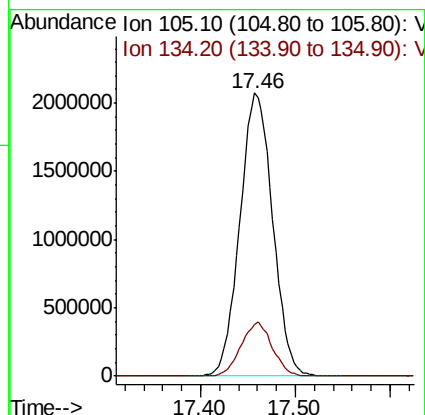
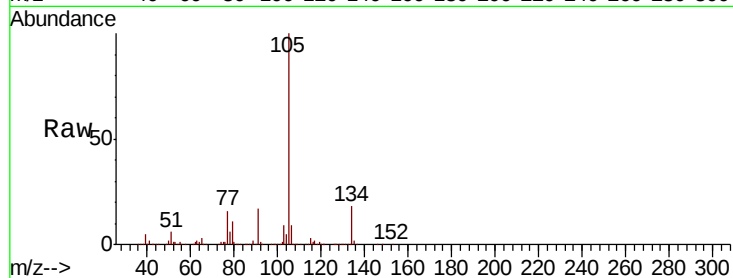
#67
 sec-Butylbenzene
 Concen: 8.347 ppbv
 RT: 17.46 min Scan# 4519
 Delta R.T. -0.01 min
 Lab File: VL033111.D
 Acq: 17 Jan 2019 3:50

Instrument :
 MSVOA_L
 ClientSampleId :
 IDOC-4

Tgt Ion: 105 Resp: 4984259
 Ion Ratio Lower Upper
 105 100
 134 18.2 14.6 21.8

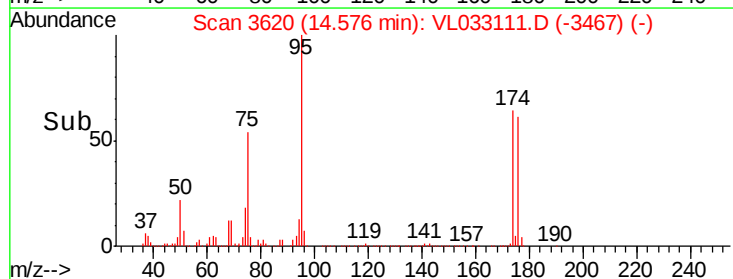
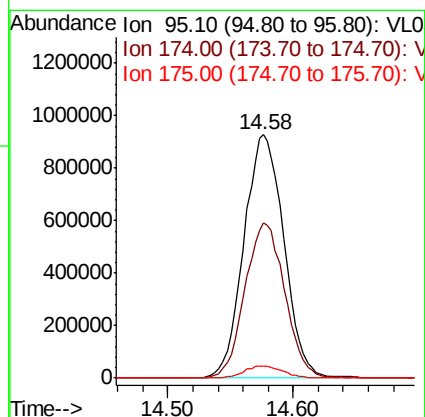
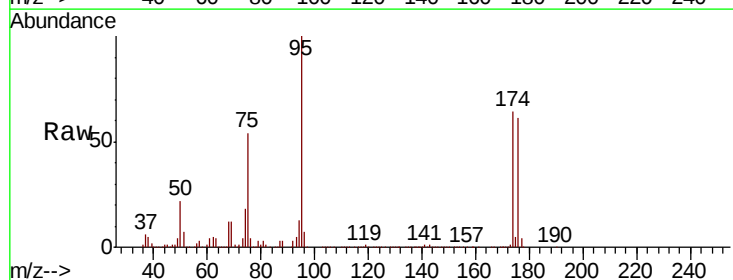
Manual Integrations
 APPROVED

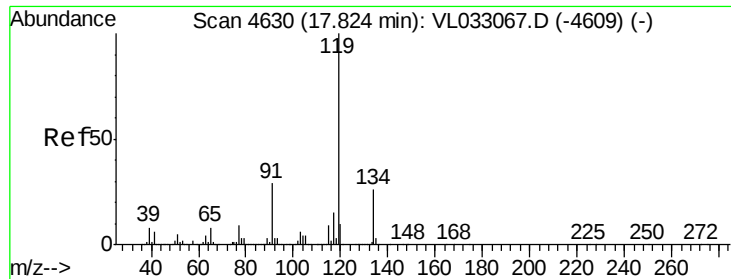
sam
 1/21/2019 8:51:21 AM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.225 ppbv
 RT: 14.58 min Scan# 3620
 Delta R.T. -0.01 min
 Lab File: VL033111.D
 Acq: 17 Jan 2019 3:50

Tgt Ion: 95 Resp: 2046933
 Ion Ratio Lower Upper
 95 100
 174 63.9 51.9 77.9
 175 4.9 3.9 5.9





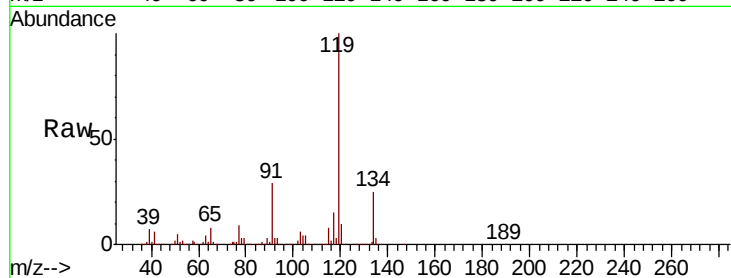
#69
p-Isopropyltoluene
Concen: 8.684 ppbv
RT: 17.82 min Scan# 4628
Delta R.T. -0.01 min
Lab File: VL033111.D
Acq: 17 Jan 2019 3:50

Instrument :
MSVOA_L
ClientSampleId :
IDOC-4

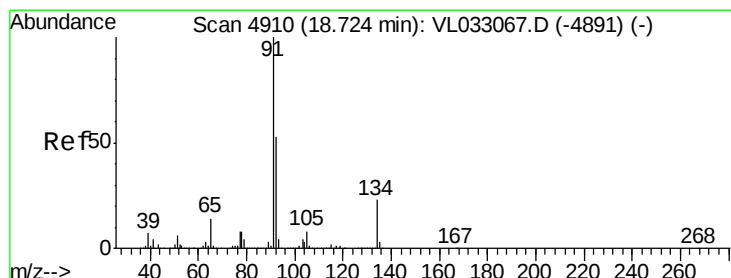
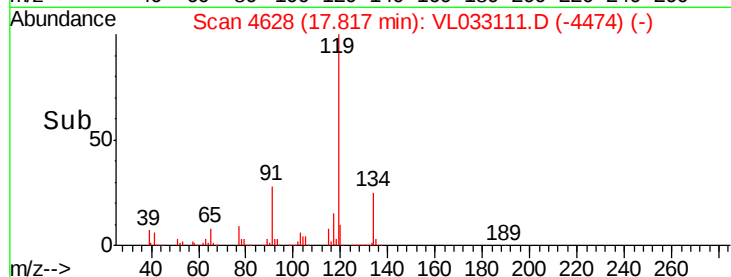
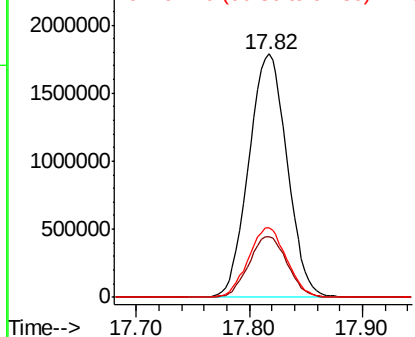
Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.0	20.1	30.1
91	28.5	23.0	34.4

Manual Integrations
APPROVED

sam
1/21/2019 8:51:21 AM

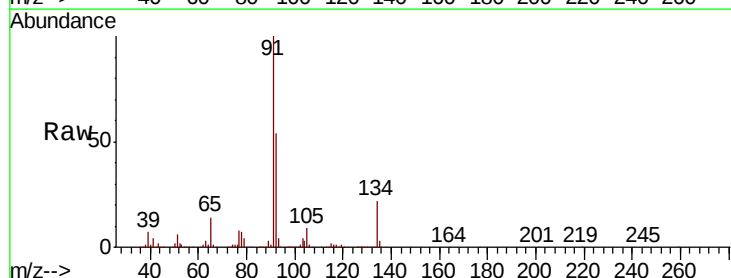


Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): V

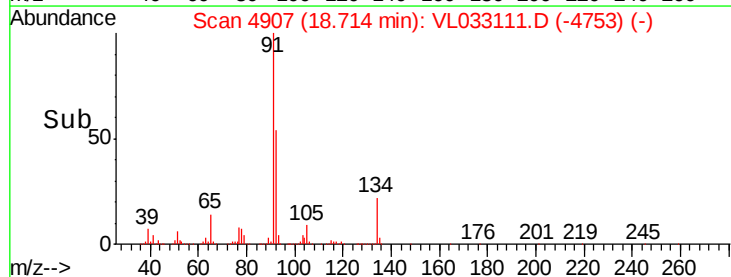
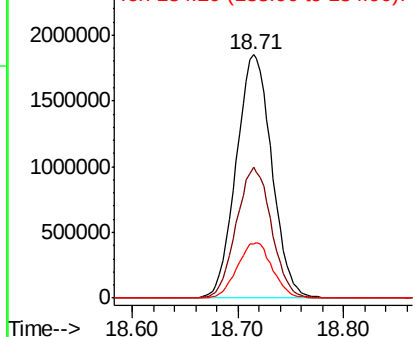


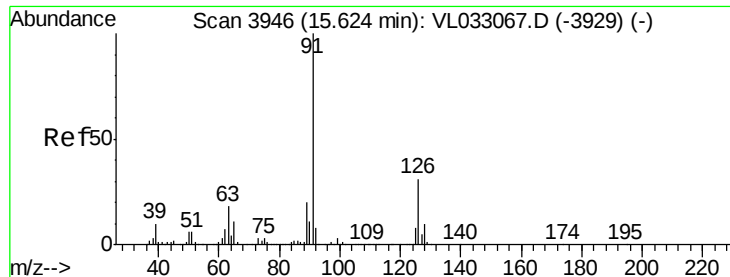
#70
n-Butylbenzene
Concen: 8.884 ppbv
RT: 18.71 min Scan# 4907
Delta R.T. -0.01 min
Lab File: VL033111.D
Acq: 17 Jan 2019 3:50

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.3	42.4	63.6
134	22.5	18.0	27.0



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





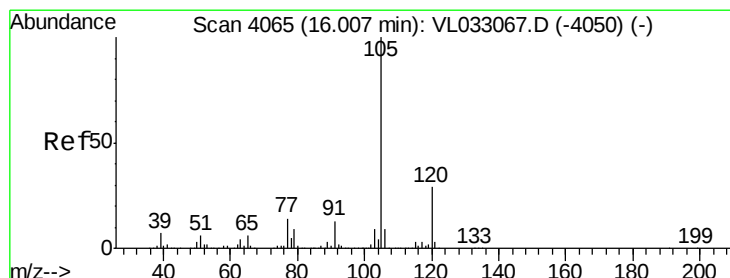
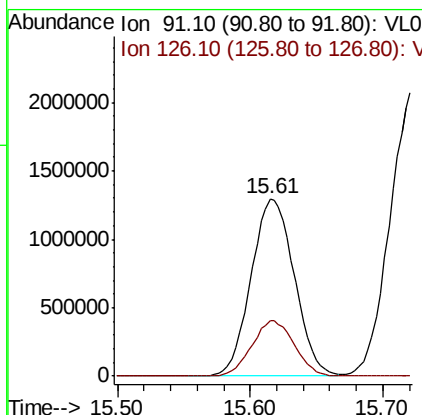
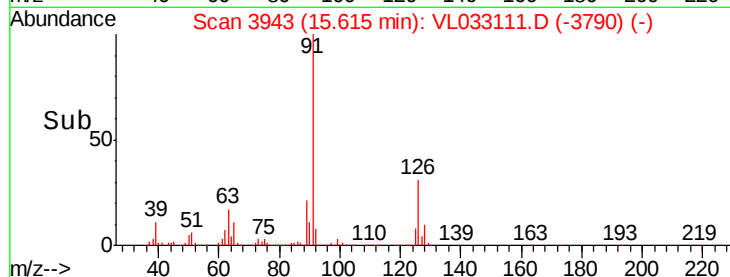
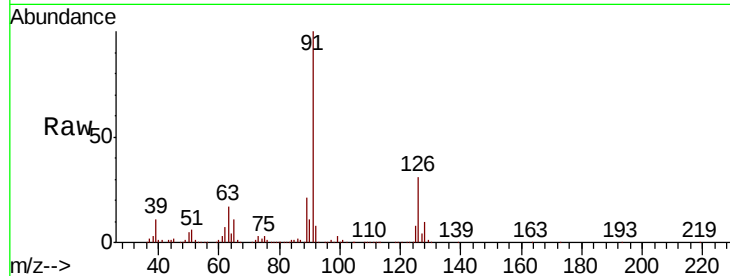
#71
 2-Chlorotoluene
 Concen: 8.799 ppbv
 RT: 15.61 min Scan# 3943
 Delta R.T. -0.01 min
 Lab File: VL033111.D
 Acq: 17 Jan 2019 3:50

Instrument :
 MSVOA_L
 ClientSampleId :
 IDOC-4

Tgt Ion: 91 Resp: 2939560
 Ion Ratio Lower Upper
 91 100
 126 30.9 12.4 49.6

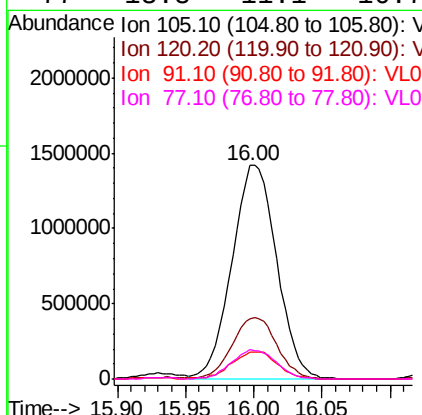
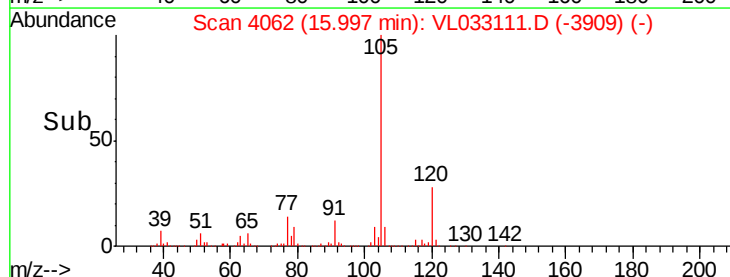
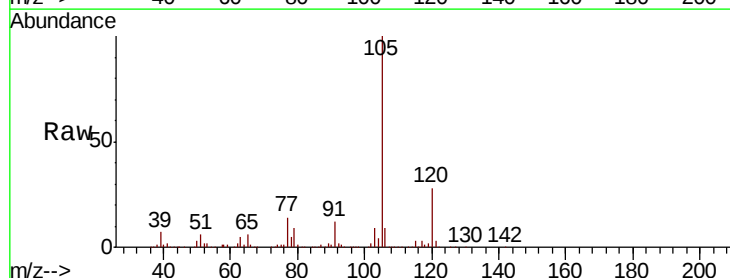
Manual Integrations
 APPROVED

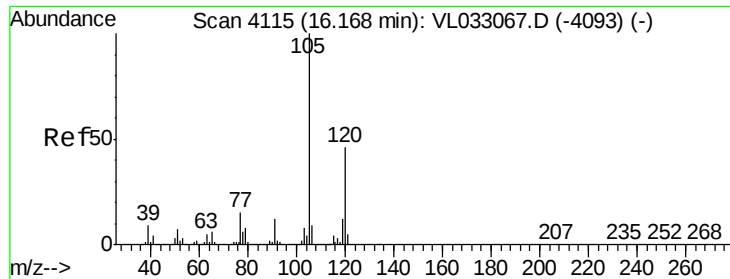
sam
 1/21/2019 8:51:21 AM



#72
 4-Ethyltoluene
 Concen: 8.858 ppbv
 RT: 16.00 min Scan# 4062
 Delta R.T. -0.01 min
 Lab File: VL033111.D
 Acq: 17 Jan 2019 3:50

Tgt Ion: 105 Resp: 3222032
 Ion Ratio Lower Upper
 105 100
 120 28.9 23.0 34.6
 91 12.8 10.3 15.5
 77 13.8 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 8.602 ppbv

RT: 16.15 min Scan# 4111

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA_L

ClientSampled :

IDOC-4

Tgt Ion:105 Resp: 3087213

Ion Ratio Lower Upper

105 100

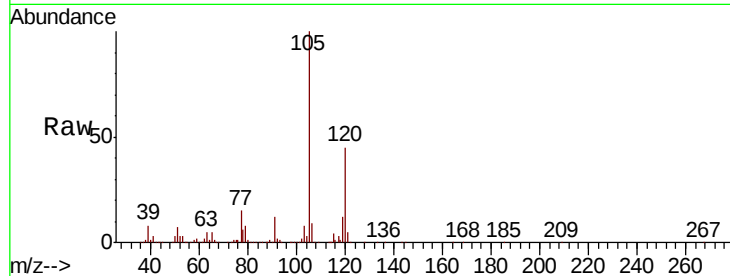
120 45.3 36.1 54.1

Manual Integrations

APPROVED

sam

1/21/2019 8:51:21 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

1500000

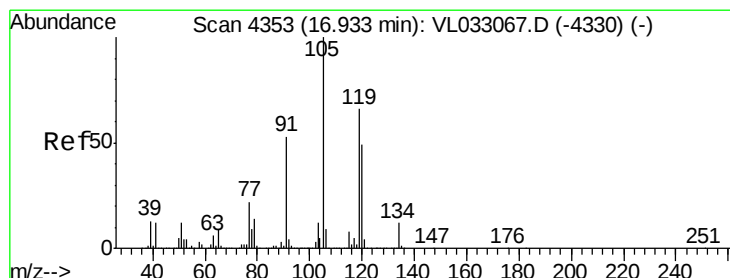
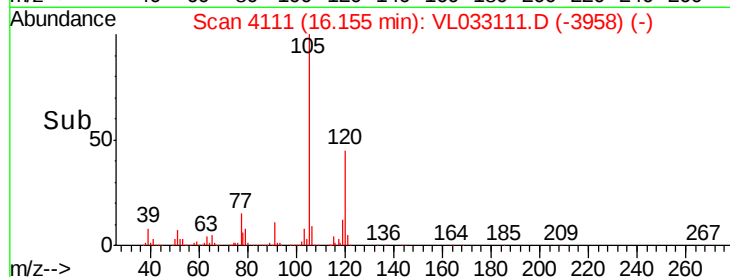
1000000

500000

0

16.10 16.20

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 8.118 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Tgt Ion:105 Resp: 3226733

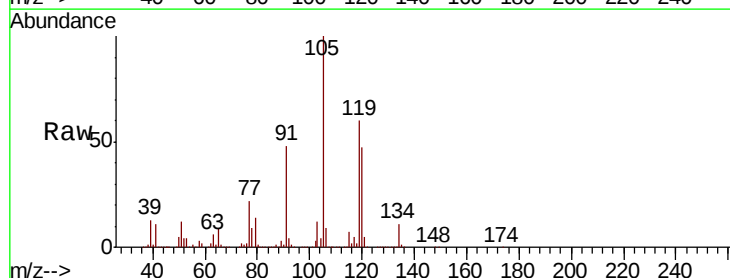
Ion Ratio Lower Upper

105 100

120 47.2 37.0 55.4

91 47.4 35.4 53.0

77 22.0 17.1 25.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

2000000

1500000

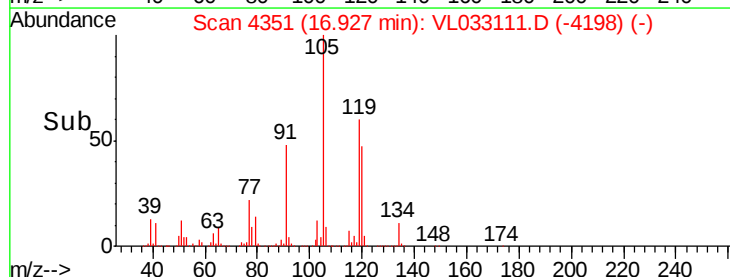
1000000

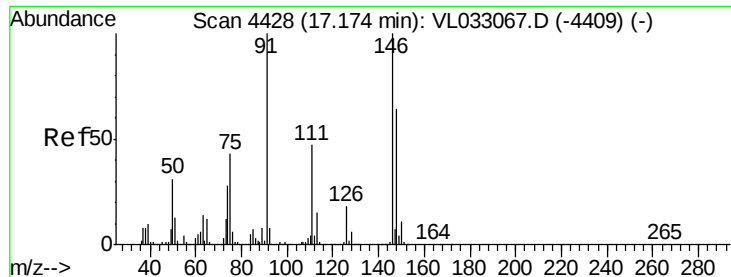
500000

0

16.90 17.00

Time-->





#75

1,3-Dichlorobenzene

Concen: 7.863 ppbv

RT: 17.17 min Scan# 4426

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA_L

ClientSampled :

IDOC-4

Tgt Ion:146 Resp: 1839718

Ion Ratio Lower Upper

146 100

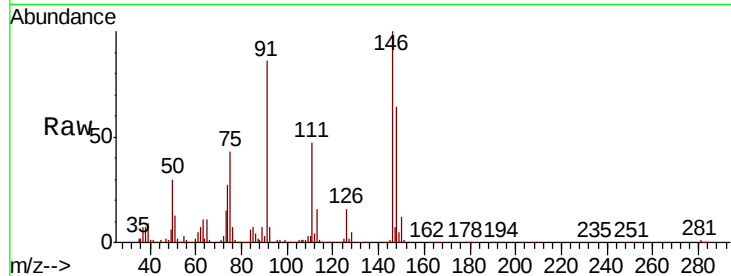
111 47.0 23.4 70.2

148 64.0 32.1 96.3

Manual Integrations
APPROVED

sam

1/21/2019 8:51:21 AM

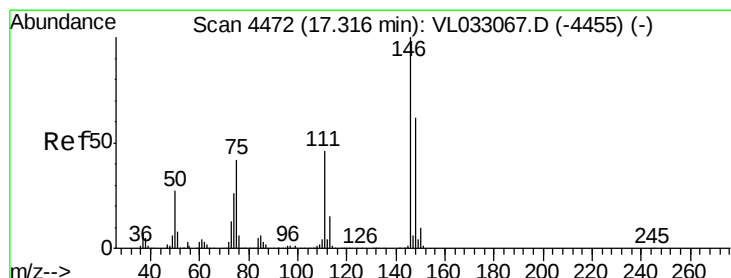
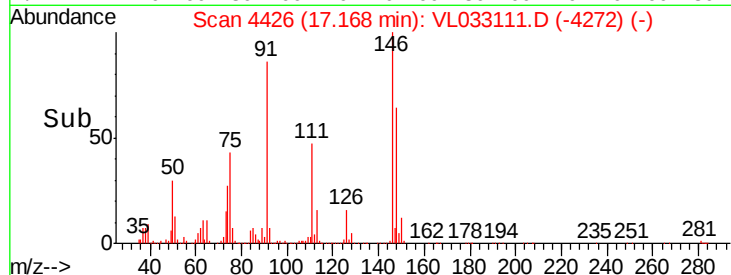
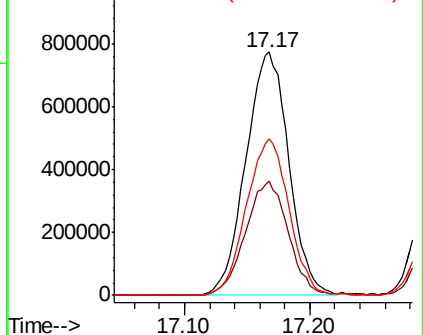


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.527 ppbv

RT: 17.31 min Scan# 4470

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

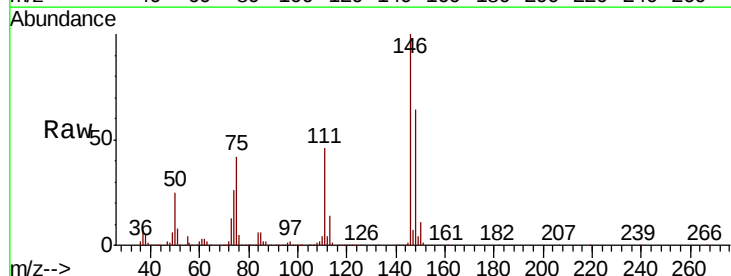
Tgt Ion:146 Resp: 1817431

Ion Ratio Lower Upper

146 100

111 45.8 22.7 68.1

148 65.1 32.4 97.2

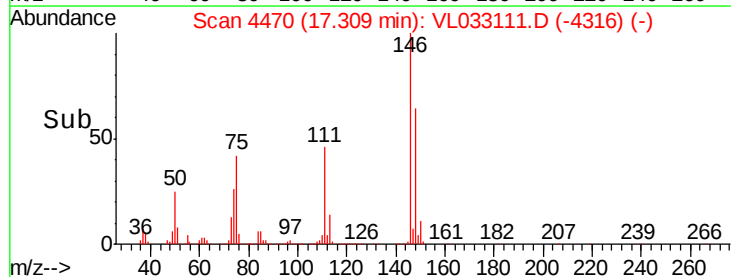
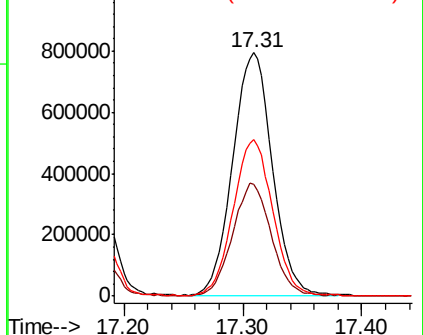


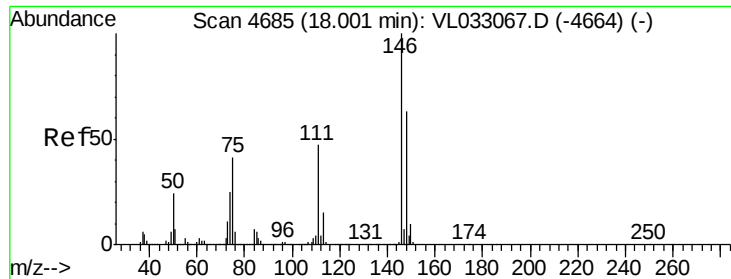
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





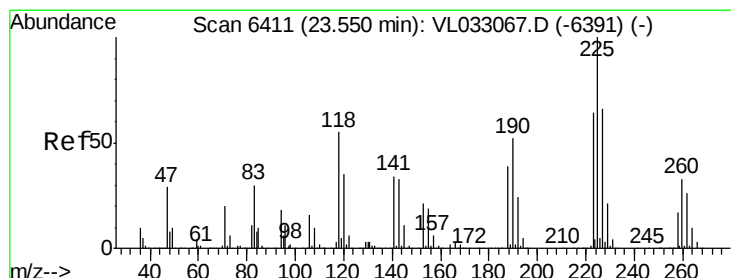
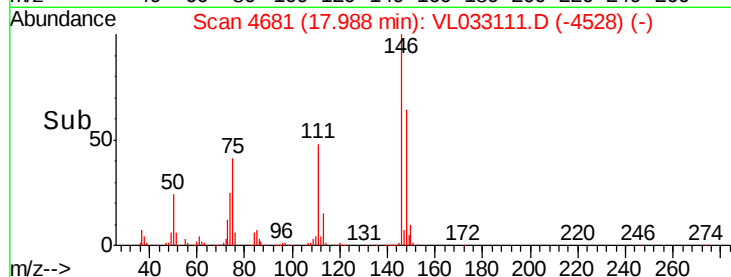
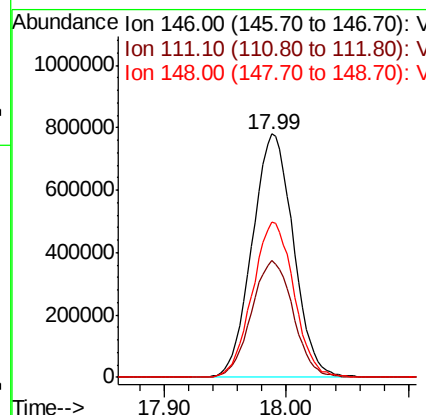
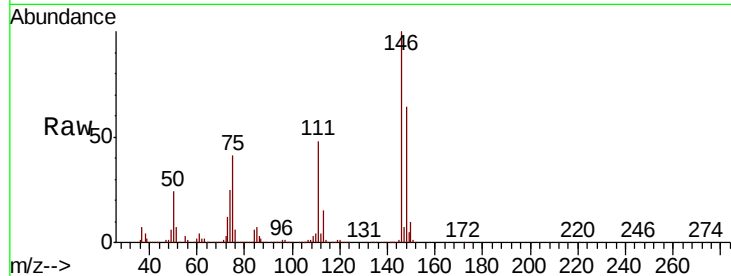
#77
 1,2-Dichlorobenzene
 Concen: 8.628 ppbv
 RT: 17.99 min Scan# 4681
 Delta R.T. -0.01 min
 Lab File: VL033111.D
 Acq: 17 Jan 2019 3:50

Instrument :
 MSVOA_L
 ClientSampled :
 IDOC-4

Tgt Ion:146 Resp: 1817880
 Ion Ratio Lower Upper
 146 100
 111 48.7 24.4 73.2
 148 64.3 32.3 96.9

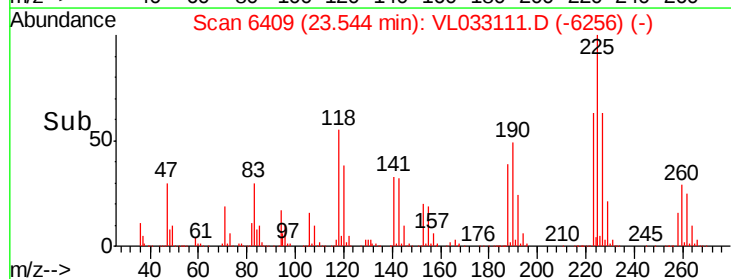
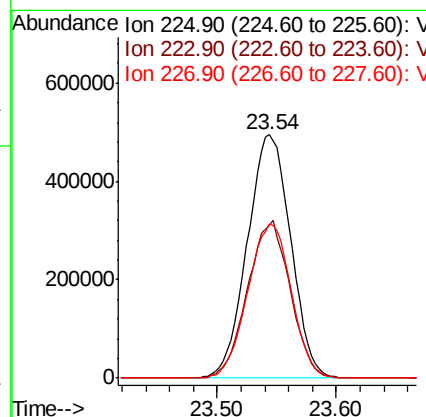
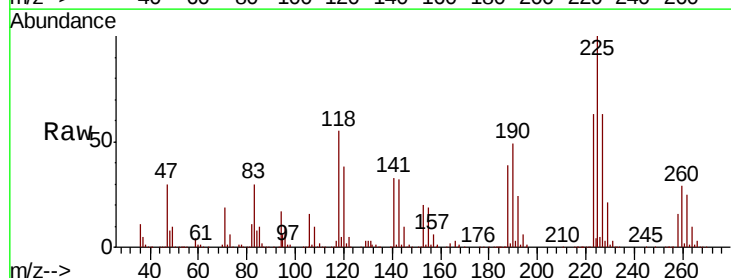
Manual Integrations
 APPROVED

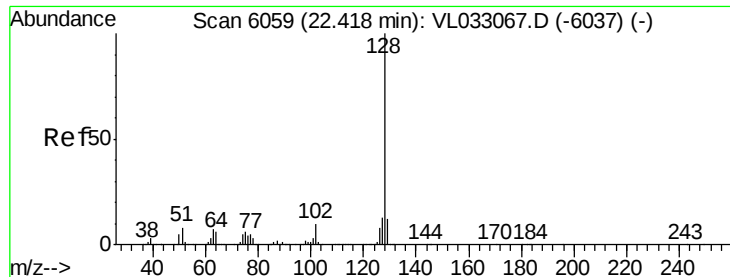
sam
 1/21/2019 8:51:21 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 7.718 ppbv
 RT: 23.54 min Scan# 6409
 Delta R.T. -0.01 min
 Lab File: VL033111.D
 Acq: 17 Jan 2019 3:50

Tgt Ion:225 Resp: 1249027
 Ion Ratio Lower Upper
 225 100
 223 63.7 51.0 76.6
 227 63.6 51.0 76.4





#79

Naphthalene

Concen: 11.379 ppbv

RT: 22.42 min Scan# 6058

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA_L

ClientSampled :

IDOC-4

Tgt Ion:128 Resp: 3809836

Ion Ratio Lower Upper

128 100

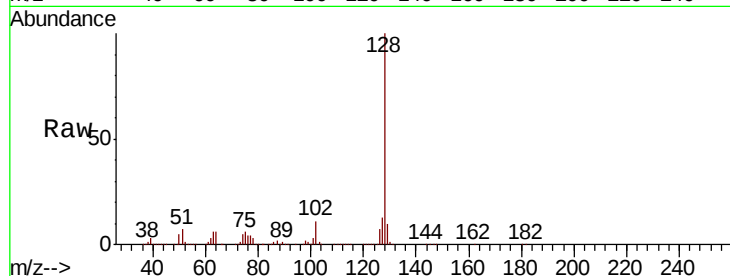
127 13.2 11.0 16.6

129 10.5 9.4 14.0

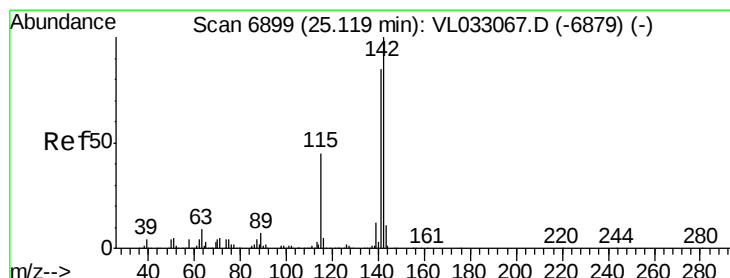
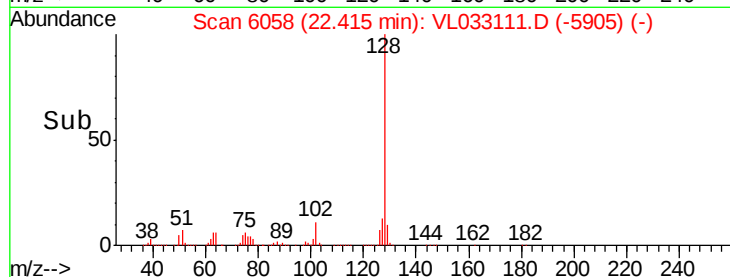
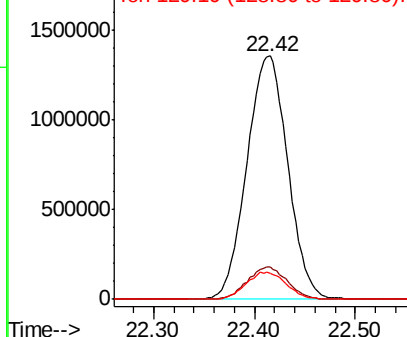
Manual Integrations
APPROVED

sam

1/21/2019 8:51:21 AM



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: 8.670 ppbv

RT: 25.11 min Scan# 6897

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

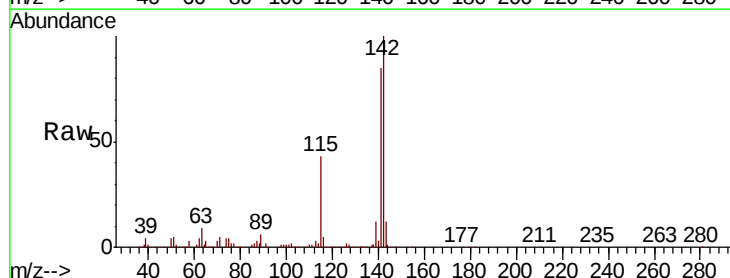
Tgt Ion:142 Resp: 880850

Ion Ratio Lower Upper

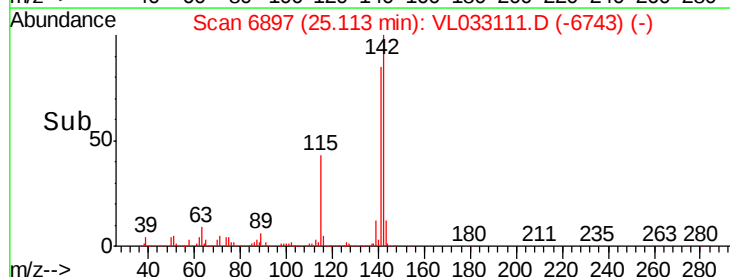
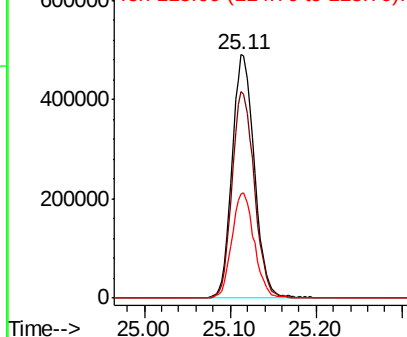
142 100

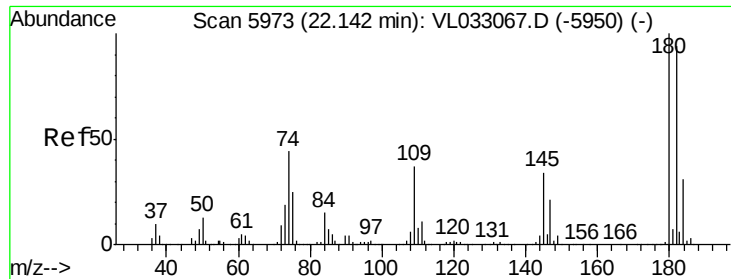
141 85.3 68.6 103.0

115 43.7 35.6 53.4



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: 11.104 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. -0.01 min
 Lab File: VL033111.D
 Acq: 17 Jan 2019 3:50

Instrument :
 MSVOA_L
 ClientSampleId :
 IDOC-4

Tgt Ion:180 Resp: 1796043
 Ion Ratio Lower Upper
 180 100
 182 95.6 76.1 114.1
 184 30.6 24.6 37.0

Manual Integrations
 APPROVED

sam
 1/21/2019 8:51:21 AM

