

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112519\
 Data File : VL034419.D
 Acq On : 25 Nov 2019 23:35
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

apatel
 12/2/2019 10:04:37 AM

Quant Time: Nov 26 04:35:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 1
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	898642	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1790228	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	1916456	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.48	95	1557080	9.66	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	1845479	11.352	ppbv	100
3) Chlorodifluoromethane	2.96	51	1104928	9.855	ppbv	100
4) Chloromethane	3.11	50	663972	10.040	ppbv	98
5) Vinyl Chloride	3.23	62	601750	9.711	ppbv	93
6) Bromomethane	3.45	94	324652	10.413	ppbv	87
7) Chloroethane	3.54	64	226703	10.080	ppbv	99
8) Dichlorotetrafluoroethane	3.16	85	1406502	9.634	ppbv	99
9) Propene	2.98	41	475230	9.547	ppbv	98
10) Heptane	8.16	43	1311347	10.208	ppbv	100
11) Trichlorofluoromethane	3.94	101	1589858	9.826	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1061147	9.876	ppbv	99
13) Ethanol	3.59	45	98714	7.119	ppbv	99
14) Bromoethene	3.72	108	439559	10.061	ppbv	99
15) Acetone	3.84	43	1287156	10.003	ppbv	98
16) 1,3-Butadiene	3.30	39	564691	10.074	ppbv	100
17) tert-Butyl alcohol	4.29	59	926950	8.570	ppbv	100
18) 1,1-Dichloroethene	4.28	96	479544	10.203	ppbv	96
19) Isopropyl Alcohol	3.95	45	737884	8.946	ppbv #	99
20) Methylene Chloride	4.34	84	406661	8.912	ppbv	90
21) Allyl Chloride	4.41	41	803321	10.418	ppbv	99
22) trans-1,2-Dichloroethene	4.89	96	485690	10.251	ppbv	96
23) Vinyl Acetate	5.08	43	1822772	10.843	ppbv	99
24) 1,1-Dichloroethane	5.01	63	1277427	9.893	ppbv	100
25) Ethyl Acetate	5.69	43	2271310	9.891	ppbv	99
26) Hexane	5.70	57	962296	9.753	ppbv	98
27) Carbon Disulfide	4.55	76	1207525	11.236	ppbv	98
28) Methyl tert-Butyl Ether	5.03	73	1603041	9.798	ppbv	99
29) Chloroform	5.77	83	1569750	9.824	ppbv	95
30) Cyclohexane	7.15	84	769927	10.322	ppbv	98
31) cis-1,2-Dichloroethene	5.56	61	1048438	10.282	ppbv	96
32) 1,1,1-Trichloroethane	6.53	97	1568401	10.469	ppbv	99
34) 2-Butanone	5.25	43	1520729	10.320	ppbv	97
35) Carbon Tetrachloride	7.04	117	1662865	10.803	ppbv	98
36) Benzene	6.92	78	1833114	10.243	ppbv	97
37) 1,2-Dichloroethane	6.33	62	1362957	10.252	ppbv	100
38) Trichloroethene	7.87	130	731521	9.961	ppbv	98
39) 1,2-Dichloropropane	7.65	63	769041	11.154	ppbv	95
40) 1,4-Dioxane	7.86	88	272591m	9.051	ppbv	
41) Tetrahydrofuran	6.06	42	857259	10.372	ppbv	98
42) Bromodichloromethane	7.83	83	1730073	10.405	ppbv	99
43) Methyl Methacrylate	8.05	69	791395	10.662	ppbv	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112519\
 Data File : VL034419.D
 Acq On : 25 Nov 2019 23:35
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

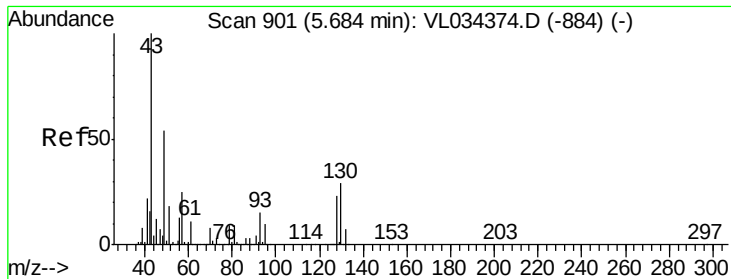
Manual Integrations
 APPROVED

apatel
 12/2/2019 10:04:37 AM

Quant Time: Nov 26 04:35:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 1
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.90	57	3302346	10.097	ppbv	100
45) t-1,3-Dichloropropene	9.32	75	1087862	11.428	ppbv	97
46) cis-1,3-Dichloropropene	8.74	75	1197277	11.198	ppbv	97
47) 1,1,2-Trichloroethane	9.52	97	771602	10.061	ppbv	97
48) Dibromochloromethane	10.35	129	1408233	10.694	ppbv	100
49) Bromoform	13.10	173	1243429	10.578	ppbv	99
50) 4-Methyl-2-Pentanone	8.78	43	2245710	10.533	ppbv	100
51) 2-Hexanone	10.17	43	1898000	10.628	ppbv	98
52) Tetrachloroethene	11.28	164	694460	8.969	ppbv	95
53) Toluene	9.85	91	2132101	10.489	ppbv	100
54) 1,2-Dibromoethane	10.66	107	1170485	9.955	ppbv	93
56) 1,1,1,2-Tetrachloroethane	12.18	131	926183	9.880	ppbv	94
57) Chlorobenzene	12.20	112	1605348	9.267	ppbv	99
58) Ethyl Benzene	12.76	91	2909736	9.784	ppbv	100
59) m/p-Xylene	13.05	91	4834630m	18.806	ppbv	
60) o-Xylene	13.75	91	2404805	9.461	ppbv	99
61) Styrene	13.58	104	1767131	9.641	ppbv	99
62) Isopropylbenzene	14.73	105	3130257	9.311	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.74	83	1641913	8.593	ppbv	99
64) n-propylbenzene	15.62	120	816018	9.347	ppbv	98
65) tert-Butylbenzene	16.81	119	2753245	9.118	ppbv	100
66) Benzyl Chloride	17.06	91	1264816	10.888	ppbv	99
67) sec-Butylbenzene	17.36	105	3817253	9.037	ppbv	100
69) p-Isopropyltoluene	17.72	119	3208295	9.152	ppbv	99
70) n-Butylbenzene	18.62	91	3461006	9.175	ppbv	99
71) 2-Chlorotoluene	15.52	91	2451032	9.144	ppbv	99
72) 4-Ethyltoluene	15.90	105	2735447	9.314	ppbv	100
73) 1,3,5-Trimethylbenzene	16.06	105	2622528	9.122	ppbv	97
74) 1,2,4-Trimethylbenzene	16.83	105	2710992	8.877	ppbv	92
75) 1,3-Dichlorobenzene	17.07	146	1539997	8.773	ppbv	99
76) 1,4-Dichlorobenzene	17.21	146	1539521	9.032	ppbv	99
77) 1,2-Dichlorobenzene	17.89	146	1505050	8.877	ppbv	98
78) Hexachloro-1,3-Butadiene	23.45	225	1574283	10.807	ppbv	99
79) Naphthalene	22.29	128	2929131	11.064	ppbv	99
80) Naphthalene, 2-methyl-	25.03	142	1450624	12.135	ppbv	99
81) 1,2,4-Trichlorobenzene	22.01	180	1705761	10.488	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.00 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

Instrument :

MSVOA_L

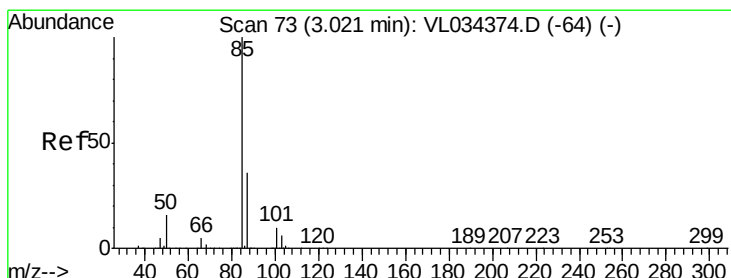
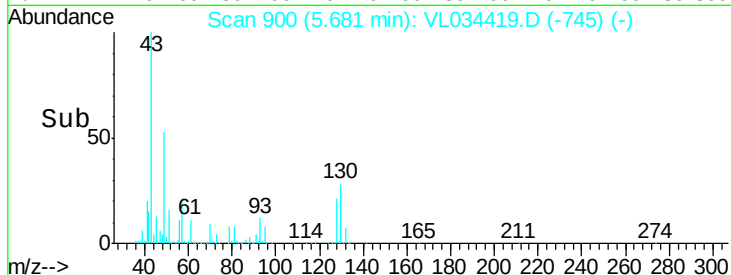
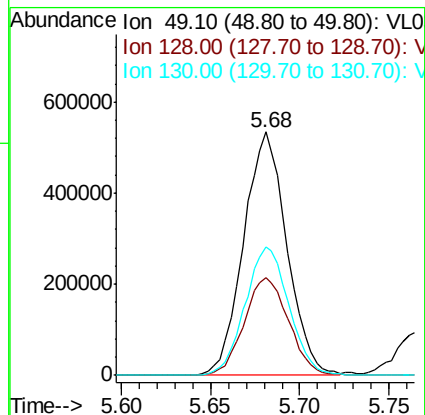
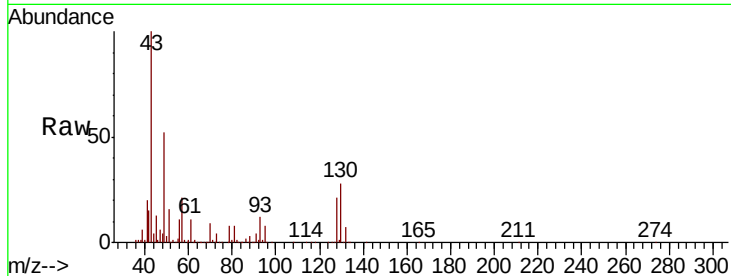
ClientSampleId :

VSTDCCC010EC

Tot Ion:	49	Resp:	898642
Ion	Ratio	Lower	Upper
49	100		
128	41.6	21.8	65.3
130	53.6	28.0	84.0

Manual Integrations
APPROVED

apatel
12/2/2019 10:04:37 AM



#2

Dichlorodifluoromethane

Concen: 11.352 ppbv

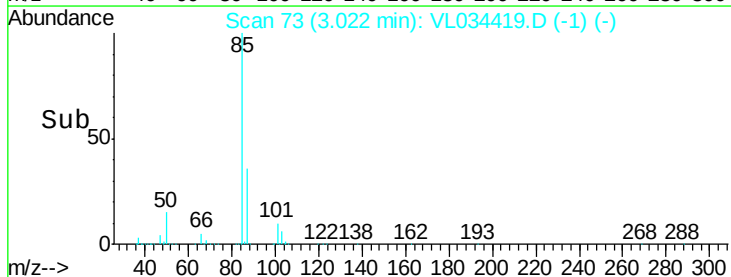
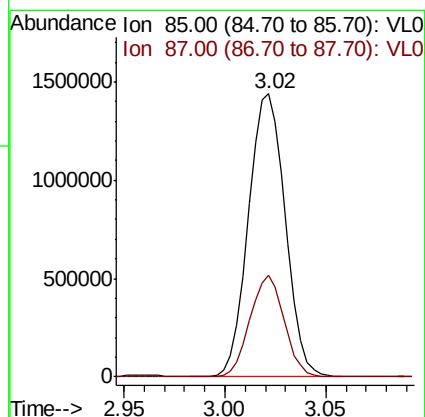
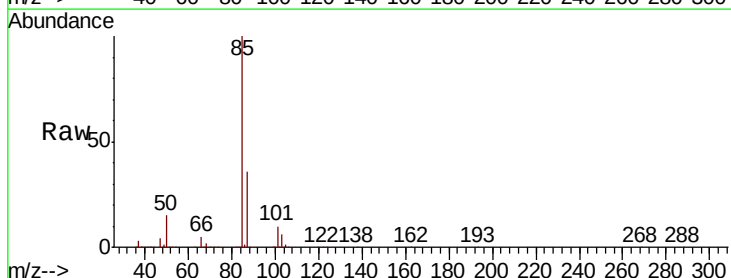
RT: 3.02 min Scan# 73

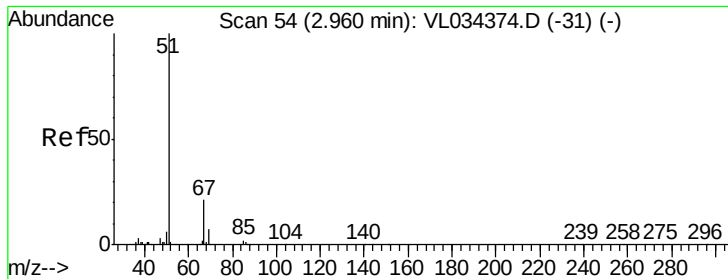
Delta R.T. 0.00 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

Tgt Ion:	85	Resp:	1845479
Ion	Ratio	Lower	Upper
85	100		
87	35.7	28.5	42.7





#3

Chlorodifluoromethane

Concen: 9.855 ppbv

RT: 2.96 min Scan# 53

Delta R.T. -0.00 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

Tot Ion: 51 Resp: 1104928

Ion Ratio Lower Upper

51 100

67 20.0 16.2 24.2

Instrument :

MSVOA_L

ClientSampleId :

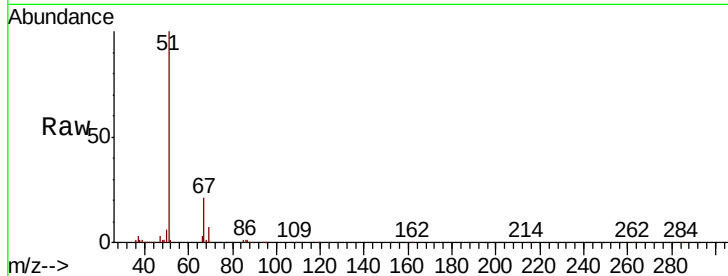
VSTDCCC010EC

Manual Integrations

APPROVED

apatel

12/2/2019 10:04:37 AM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

1000000

800000

600000

400000

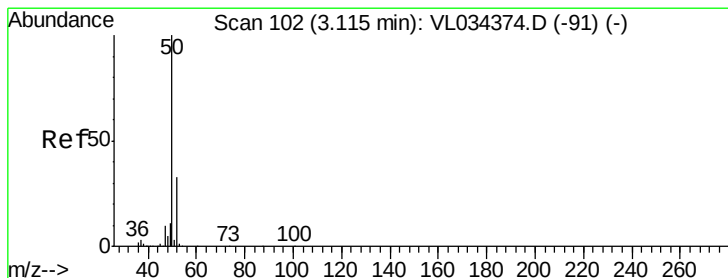
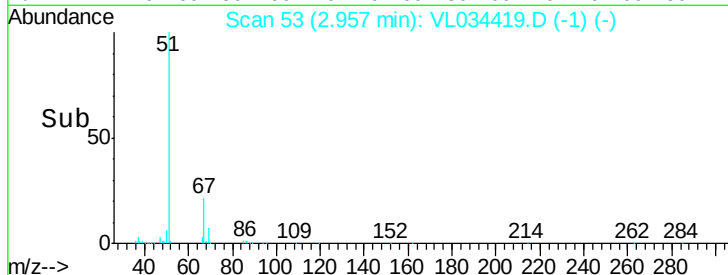
200000

0

Time-->

2.90 3.00 3.10

2.96



#4

Chloromethane

Concen: 10.040 ppbv

RT: 3.11 min Scan# 101

Delta R.T. -0.00 min

Lab File: VL034419.D

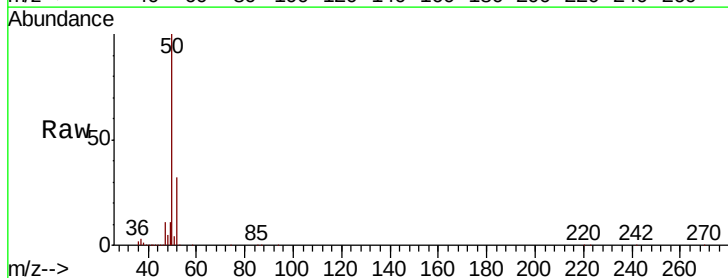
Acq: 25 Nov 2019 23:35

Tgt Ion: 50 Resp: 663972

Ion Ratio Lower Upper

50 100

52 32.4 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

500000

400000

300000

200000

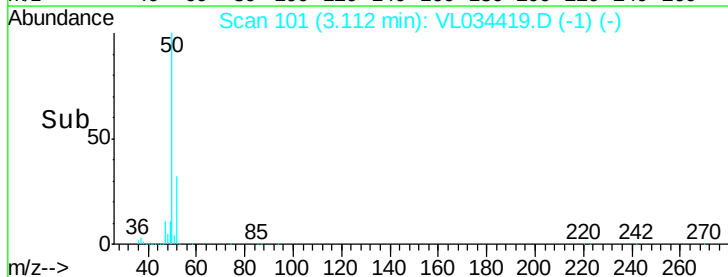
100000

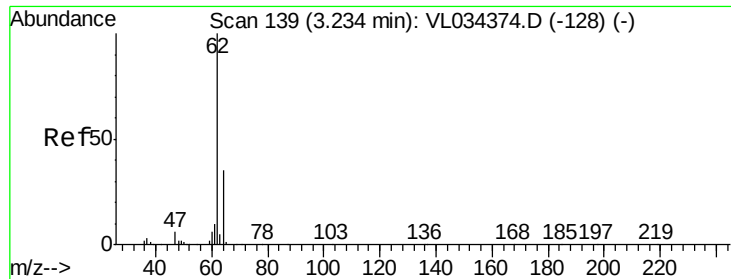
0

Time-->

3.05 3.10 3.15

3.11





#5

Vinyl Chloride

Concen: 9.711 ppbv

RT: 3.23 min Scan# 139

Delta R.T. 0.00 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 601750

Ion Ratio Lower Upper

62 100

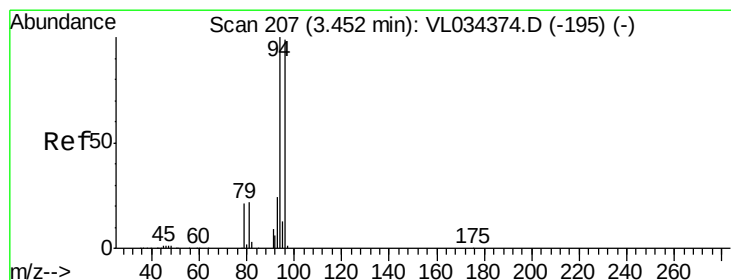
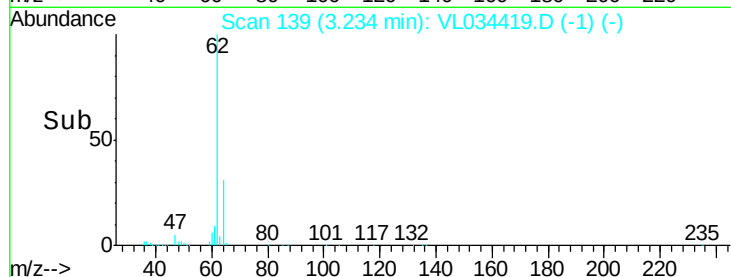
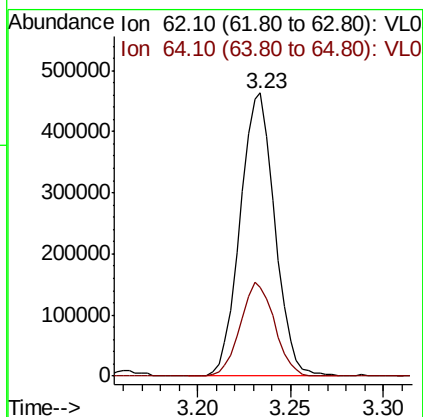
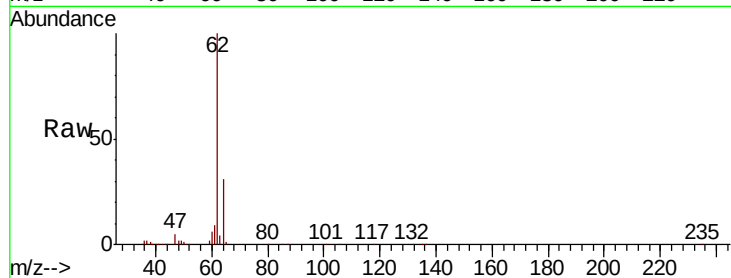
64 31.5 28.4 42.6

Manual Integrations

APPROVED

apatel

12/2/2019 10:04:37 AM



#6

Bromomethane

Concen: 10.413 ppbv

RT: 3.45 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL034419.D

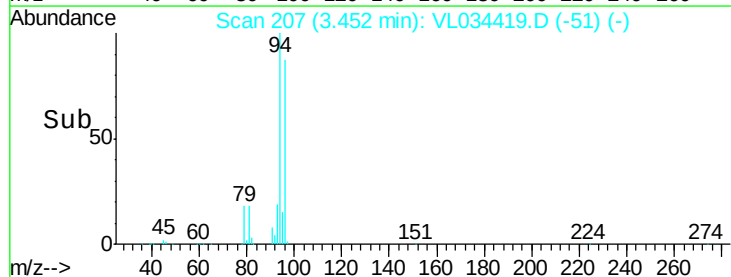
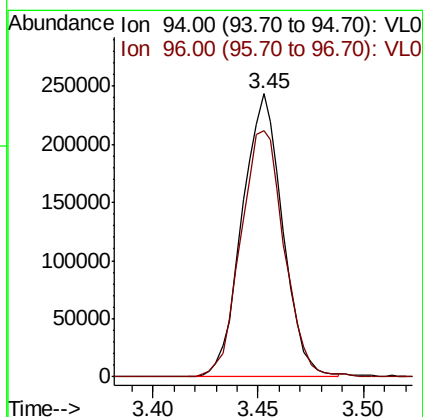
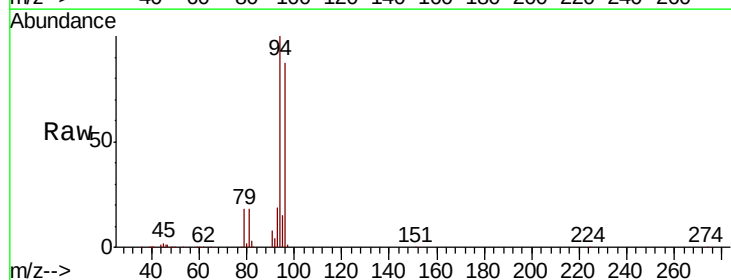
Acq: 25 Nov 2019 23:35

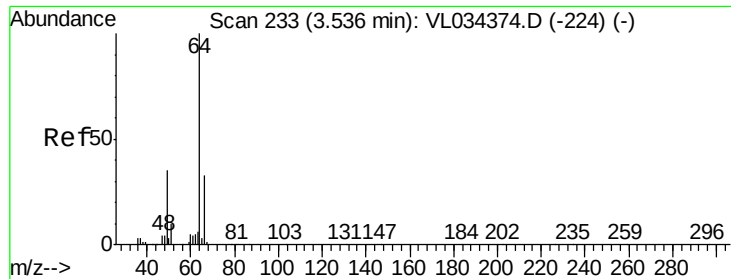
Tgt Ion: 94 Resp: 324652

Ion Ratio Lower Upper

94 100

96 86.9 79.5 119.3





#7

Chloroethane

Concen: 10.080 ppbv

RT: 3.54 min Scan# 233

Delta R.T. 0.00 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 226703

Ion Ratio Lower Upper

64 100

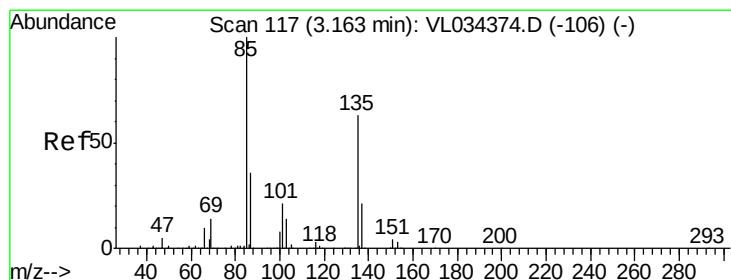
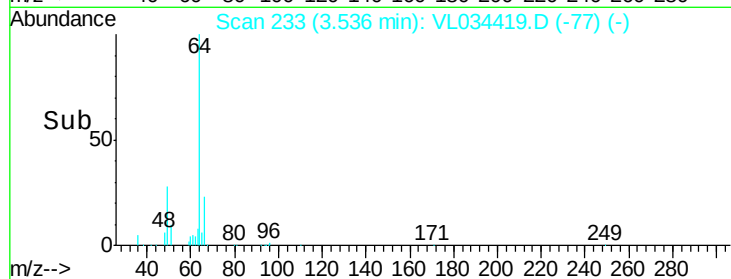
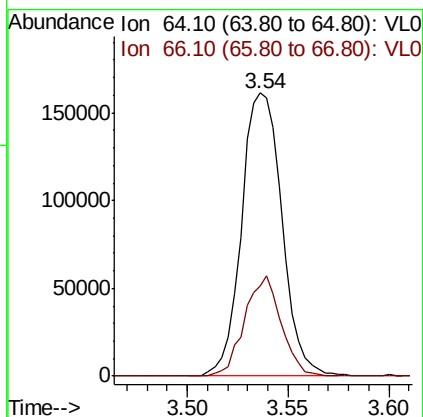
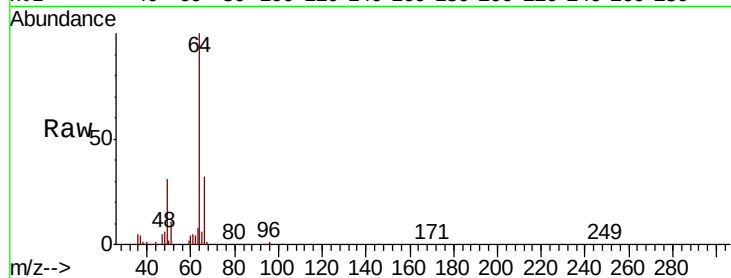
66 31.9 26.0 39.0

Manual Integrations

APPROVED

apatel

12/2/2019 10:04:37 AM



#8

Dichlorotetrafluoroethane

Concen: 9.634 ppbv

RT: 3.16 min Scan# 117

Delta R.T. 0.00 min

Lab File: VL034419.D

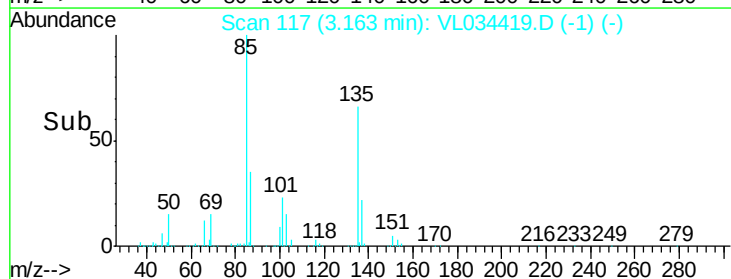
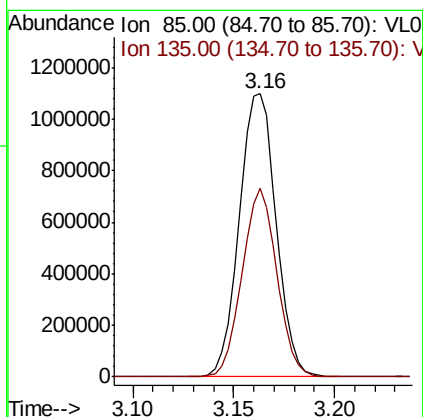
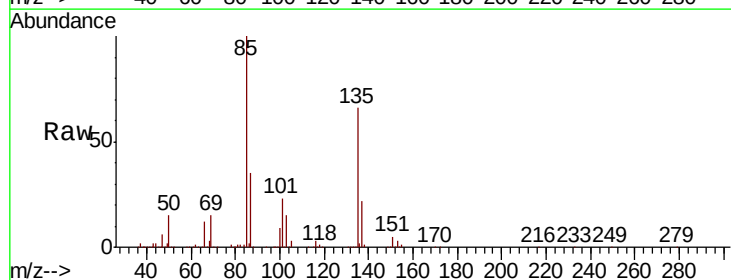
Acq: 25 Nov 2019 23:35

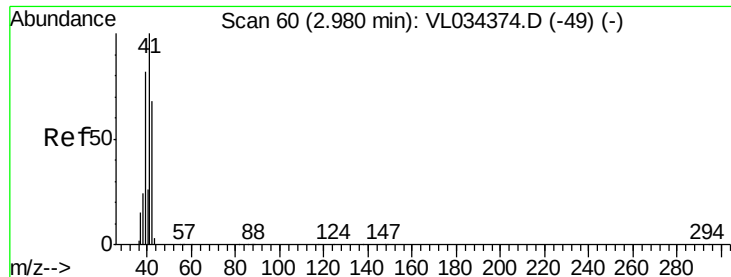
Tgt Ion: 85 Resp: 1406502

Ion Ratio Lower Upper

85 100

135 63.1 51.1 76.7





#9

Propene

Concen: 9.547 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.00 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 475230

Ion Ratio Lower Upper

41 100

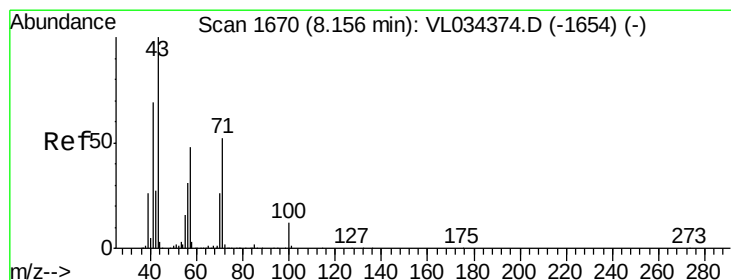
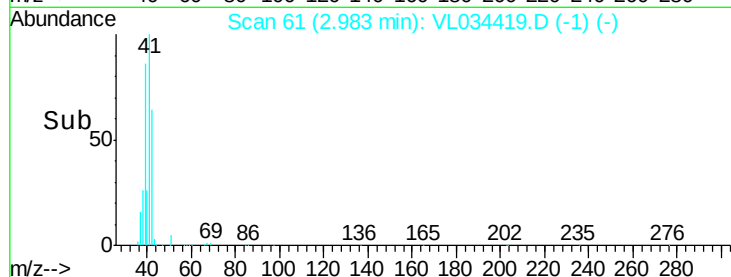
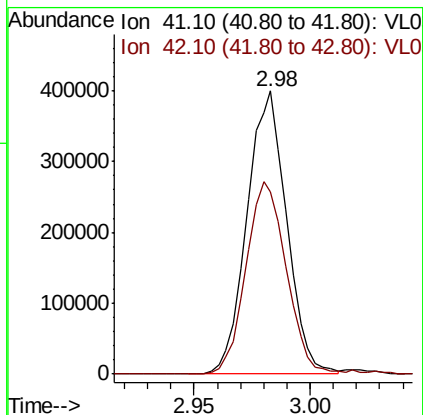
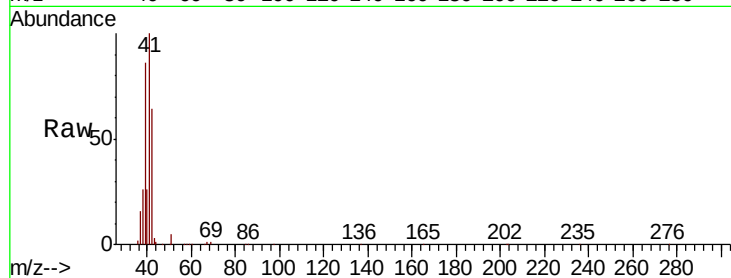
42 70.0 54.6 82.0

Manual Integrations

APPROVED

apatel

12/2/2019 10:04:37 AM



#10

Heptane

Concen: 10.208 ppbv

RT: 8.16 min Scan# 1670

Delta R.T. 0.00 min

Lab File: VL034419.D

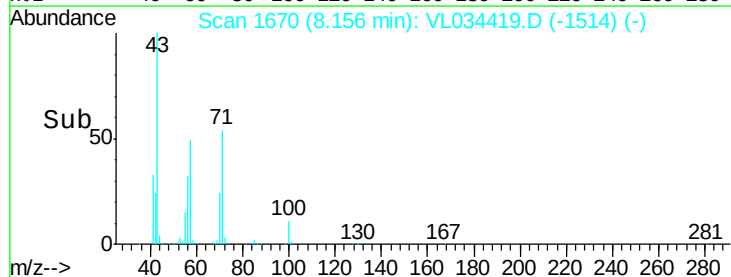
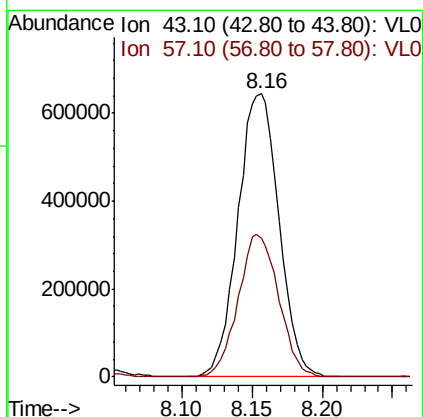
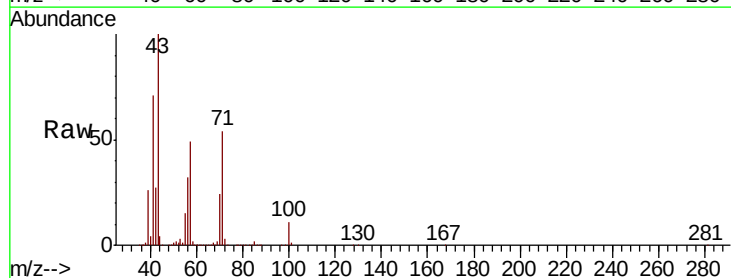
Acq: 25 Nov 2019 23:35

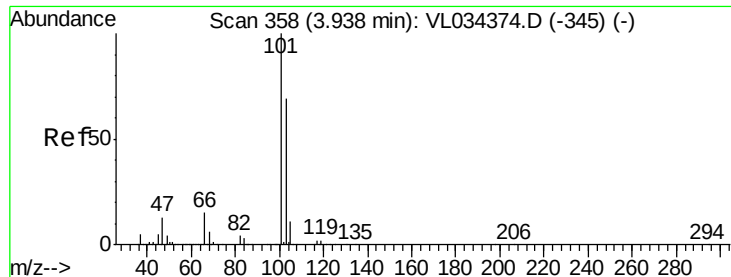
Tgt Ion: 43 Resp: 1311347

Ion Ratio Lower Upper

43 100

57 50.0 40.2 60.2





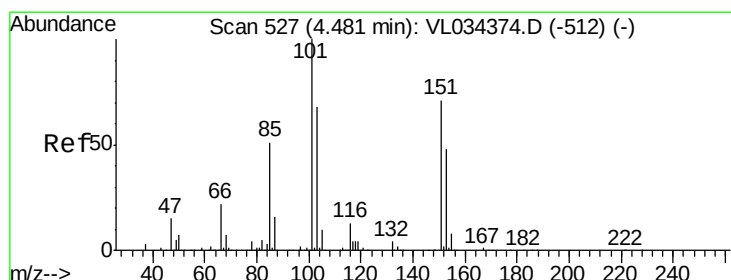
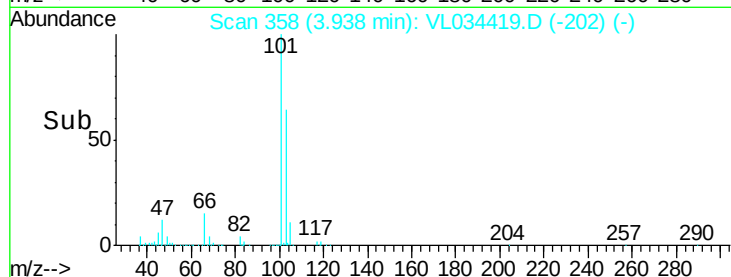
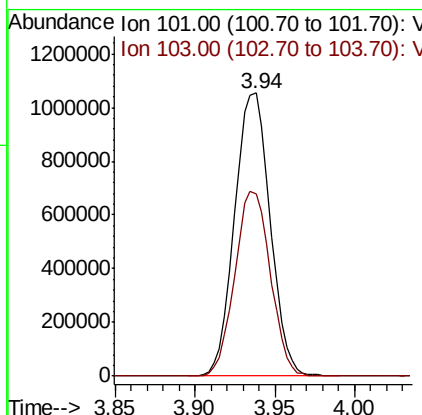
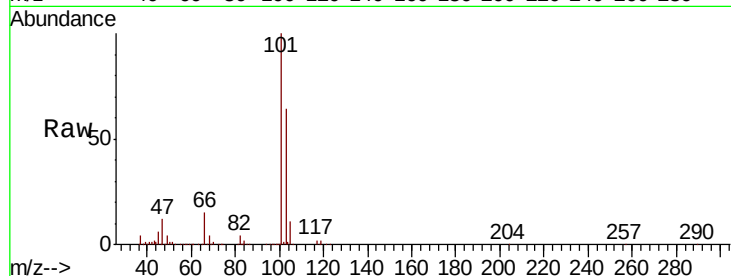
#11
 Trichlorofluoromethane
 Concen: 9.826 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. 0.00 min
 Lab File: VL034419.D
 Acq: 25 Nov 2019 23:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1589858
 Ion Ratio Lower Upper
 101 100
 103 64.2 55.4 83.0

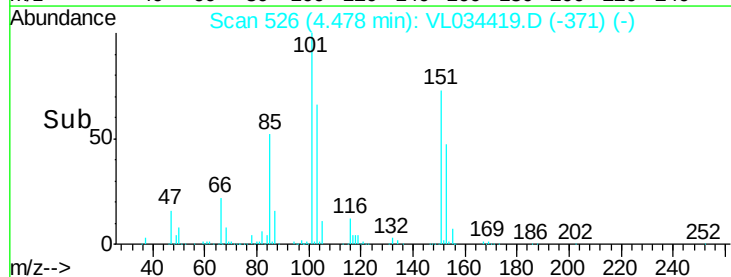
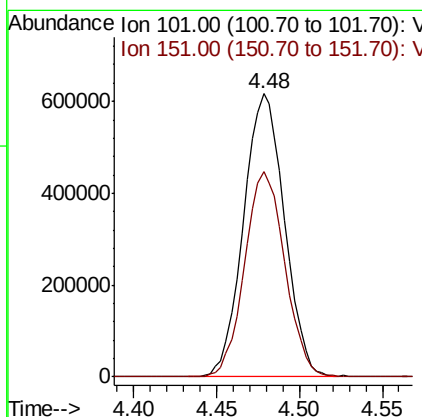
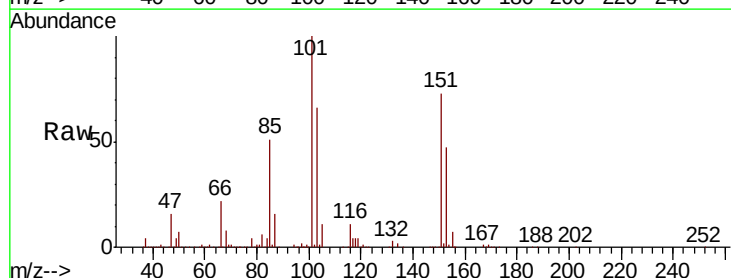
Manual Integrations
 APPROVED

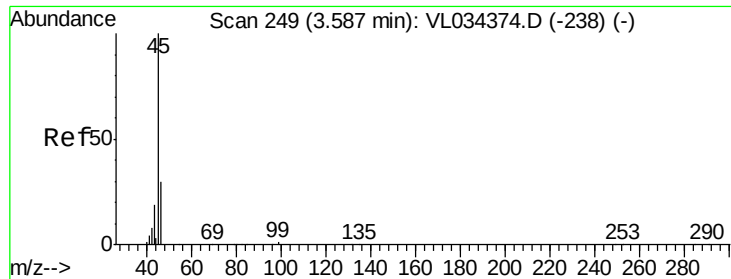
apatel
 12/2/2019 10:04:37 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.876 ppbv
 RT: 4.48 min Scan# 526
 Delta R.T. -0.00 min
 Lab File: VL034419.D
 Acq: 25 Nov 2019 23:35

Tgt Ion:101 Resp: 1061147
 Ion Ratio Lower Upper
 101 100
 151 71.2 57.4 86.2





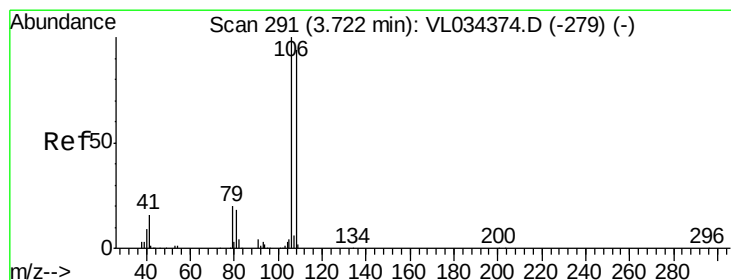
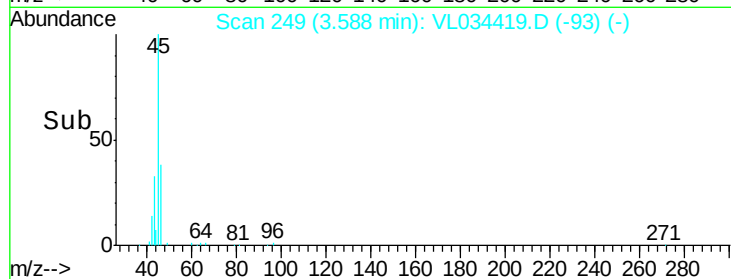
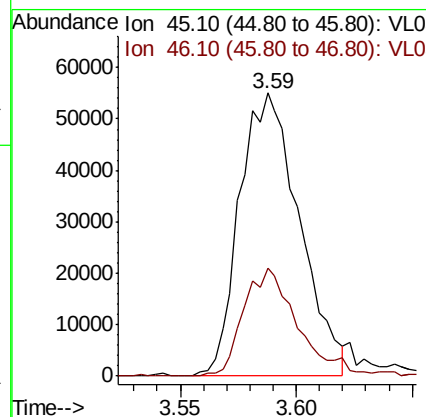
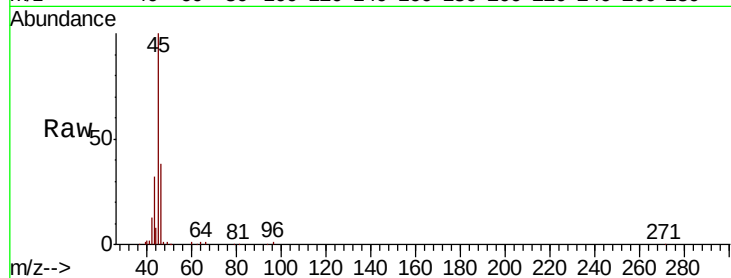
#13
Ethanol
Concen: 7.119 ppbv
RT: 3.59 min Scan# 249
Delta R.T. 0.00 min
Lab File: VL034419.D
Acq: 25 Nov 2019 23:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
45	100		
46	34.9	13.8	55.4

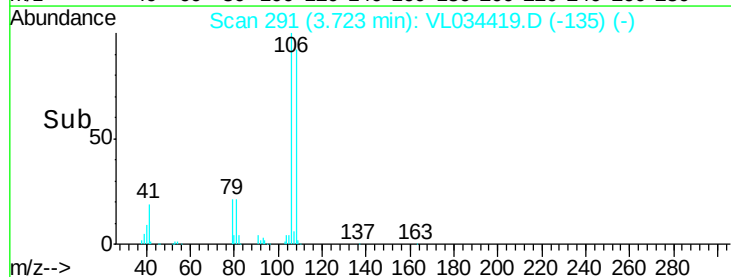
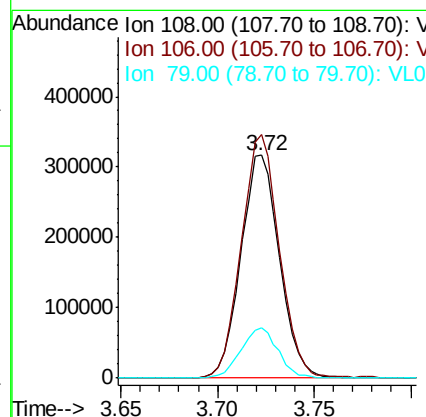
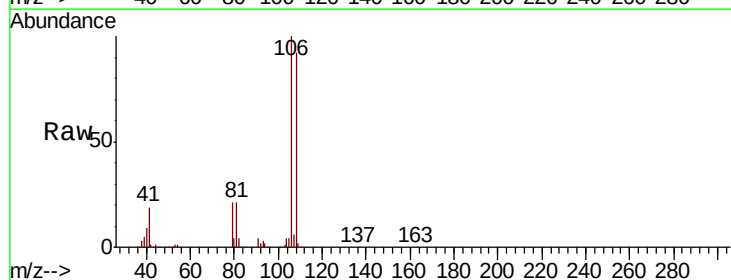
Manual Integrations
APPROVED

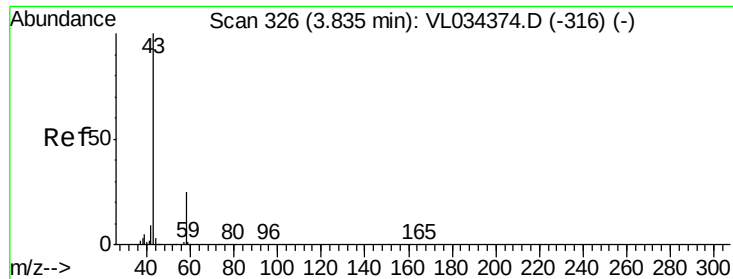
apatel
12/2/2019 10:04:37 AM



#14
Bromoethene
Concen: 10.061 ppbv
RT: 3.72 min Scan# 291
Delta R.T. 0.00 min
Lab File: VL034419.D
Acq: 25 Nov 2019 23:35

Tgt Ion	Ratio	Lower	Upper
108	100		
106	107.9	85.7	128.5
79	21.9	17.2	25.8





#15

Acetone

Concen: 10.003 ppbv

RT: 3.84 min Scan# 326

Delta R.T. 0.00 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1287156

Ion Ratio Lower Upper

43 100

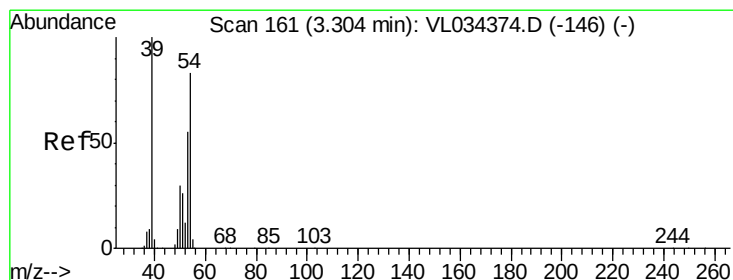
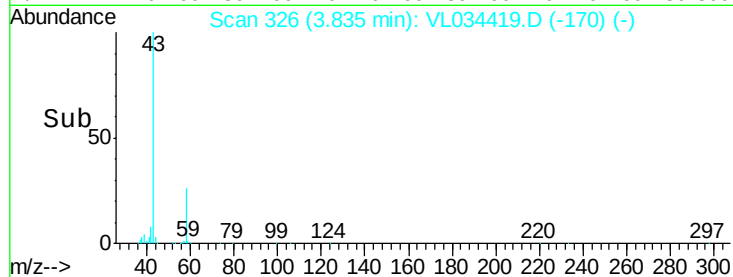
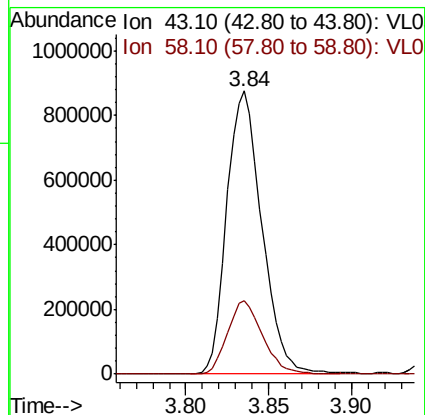
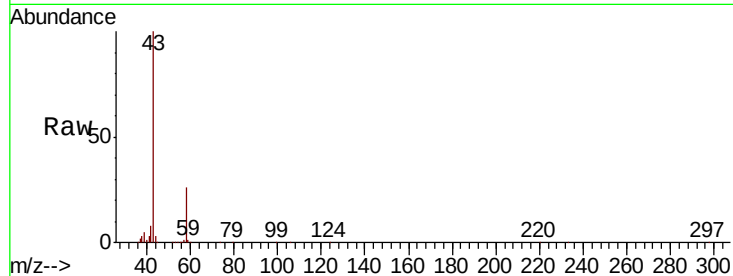
58 26.1 20.2 30.4

Manual Integrations

APPROVED

apatel

12/2/2019 10:04:37 AM



#16

1,3-Butadiene

Concen: 10.074 ppbv

RT: 3.30 min Scan# 161

Delta R.T. 0.00 min

Lab File: VL034419.D

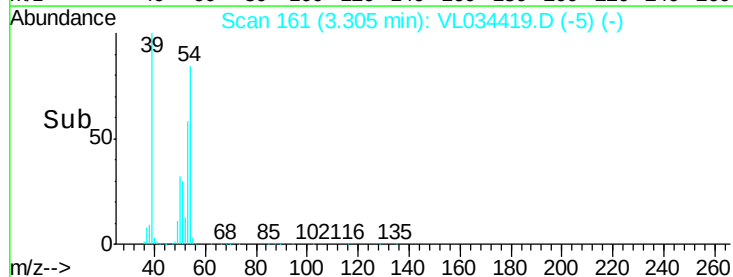
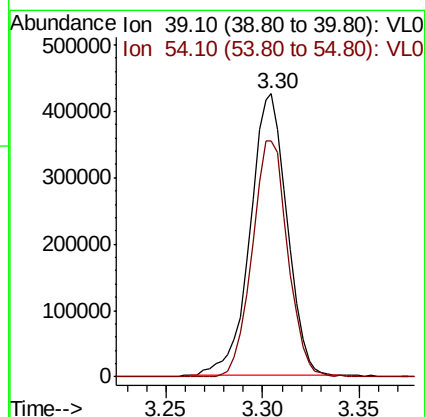
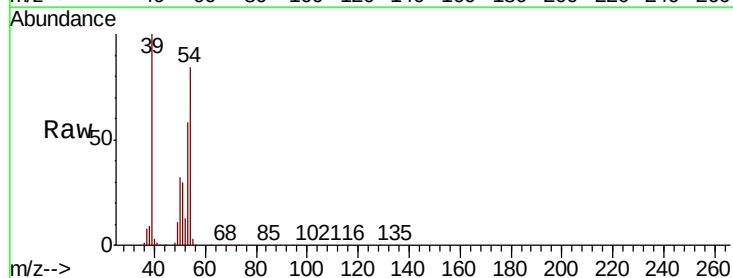
Acq: 25 Nov 2019 23:35

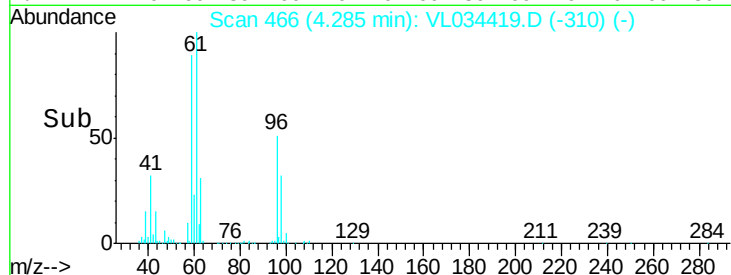
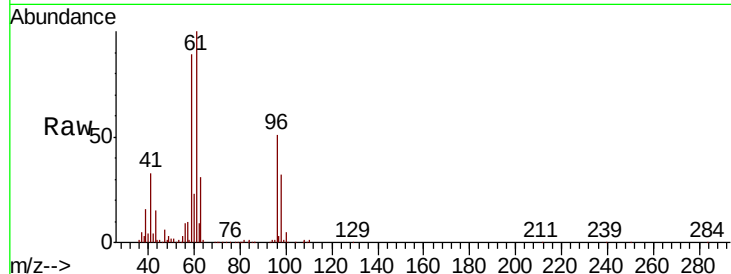
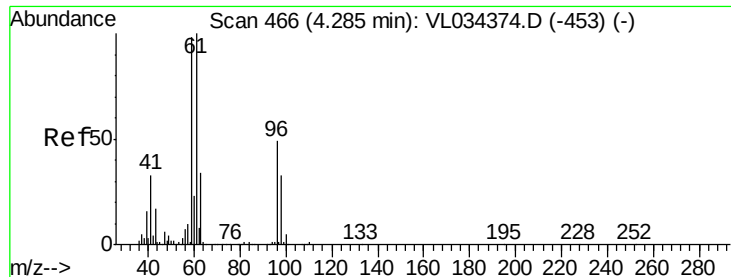
Tgt Ion: 39 Resp: 564691

Ion Ratio Lower Upper

39 100

54 80.8 64.7 97.1





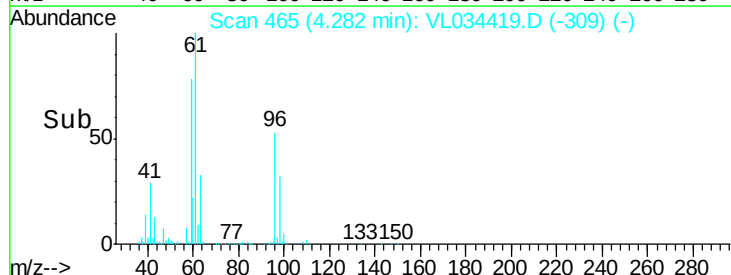
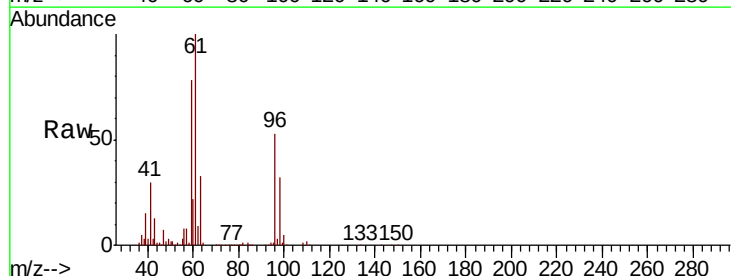
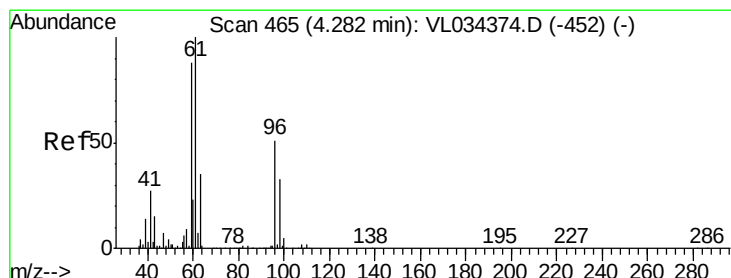
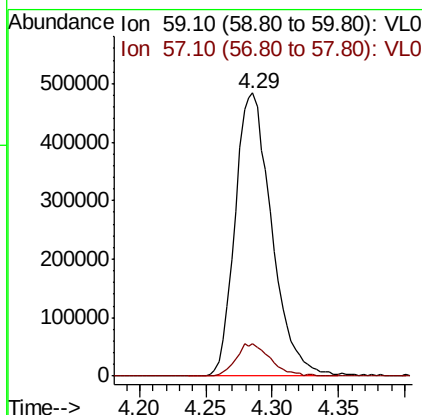
#17
tert-Butyl alcohol
Concen: 8.570 ppbv
RT: 4.29 min Scan# 466
Delta R.T. 0.00 min
Lab File: VL034419.D
Acq: 25 Nov 2019 23:35

Tot Ion: 59 Resp: 926950
Ion Ratio Lower Upper
59 100
57 11.0 8.8 13.2

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

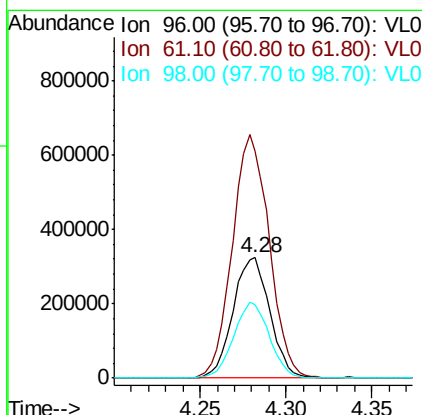
Manual Integrations
APPROVED

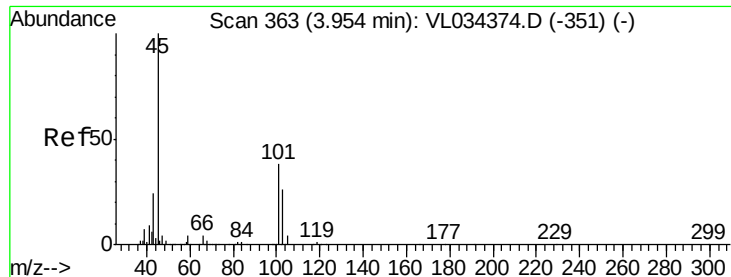
apatel
12/2/2019 10:04:37 AM



#18
1,1-Dichloroethene
Concen: 10.203 ppbv
RT: 4.28 min Scan# 465
Delta R.T. 0.00 min
Lab File: VL034419.D
Acq: 25 Nov 2019 23:35

Tgt Ion: 96 Resp: 479544
Ion Ratio Lower Upper
96 100
61 188.2 155.6 233.4
98 61.0 51.6 77.4





#19

Isopropyl Alcohol

Concen: 8.946 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.00 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 737884

Ion Ratio Lower Upper

45 100

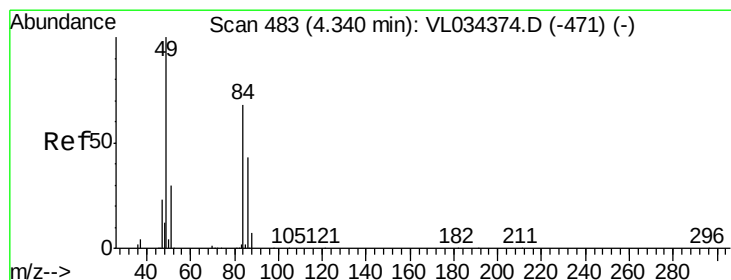
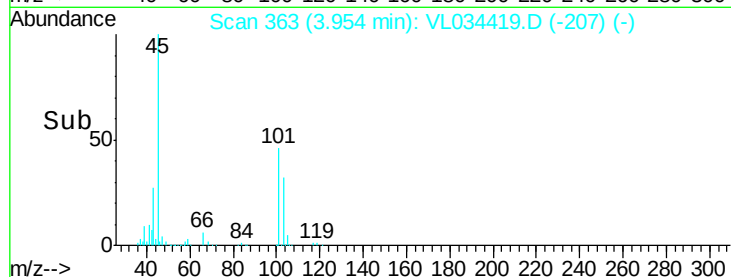
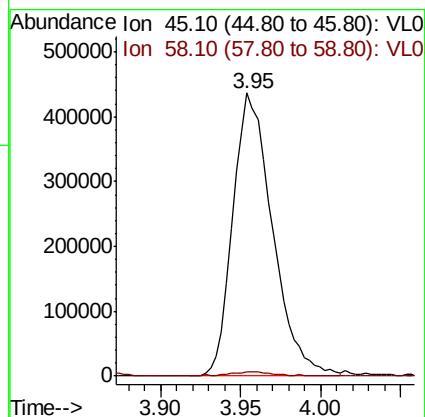
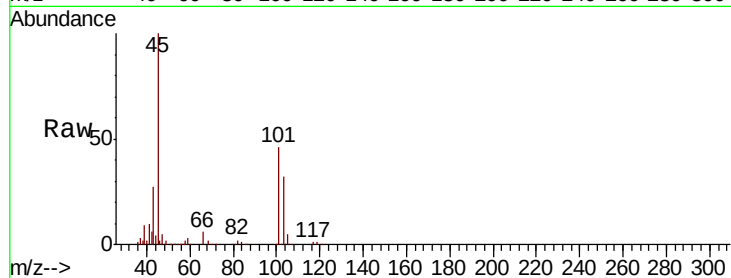
58 2.0 1.3 1.9#

Manual Integrations

APPROVED

apatel

12/2/2019 10:04:37 AM



#20

Methylene Chloride

Concen: 8.912 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.00 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

Tgt Ion: 84 Resp: 406661

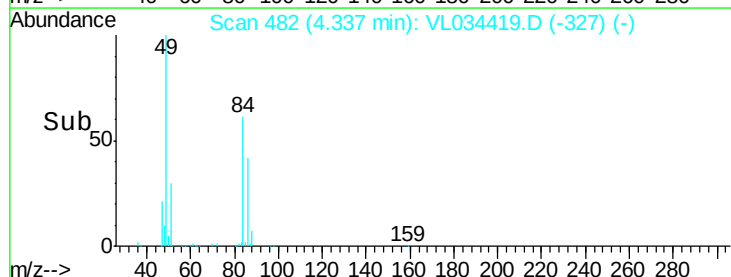
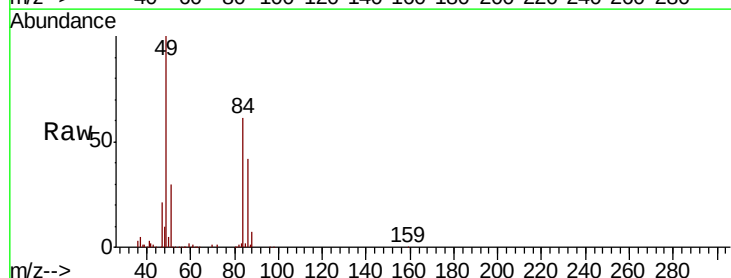
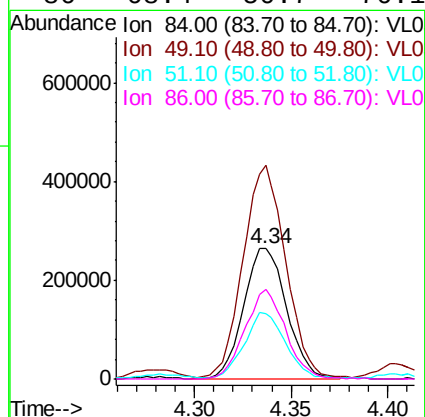
Ion Ratio Lower Upper

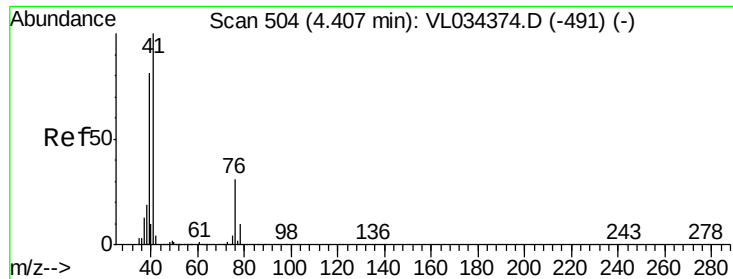
84 100

49 162.8 116.8 175.2

51 48.9 35.6 53.4

86 68.4 50.7 76.1





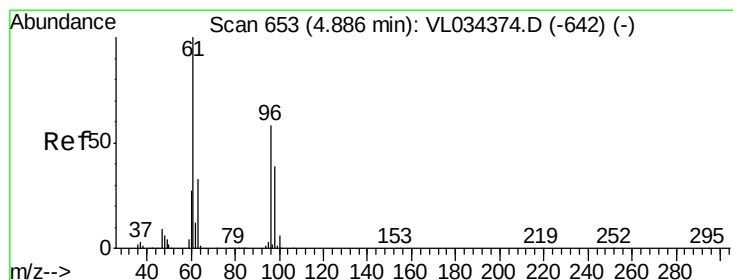
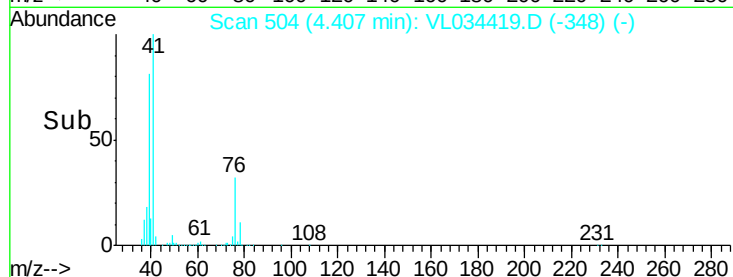
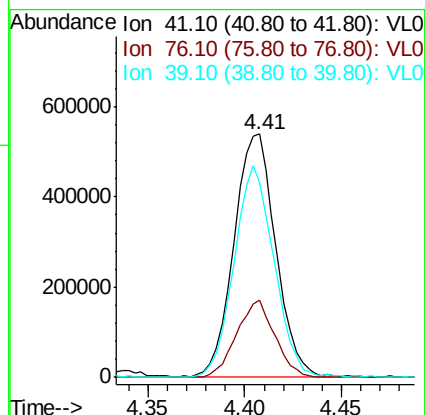
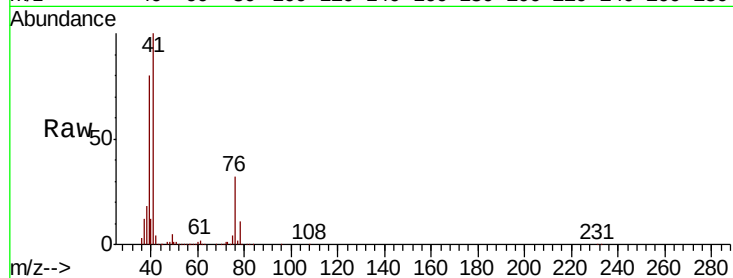
#21
Allvl Chloride
Concen: 10.418 ppbv
RT: 4.41 min Scan# 504
Delta R.T. 0.00 min
Lab File: VL034419.D
Acq: 25 Nov 2019 23:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	29.5	24.2	36.2
39	84.2	66.9	100.3

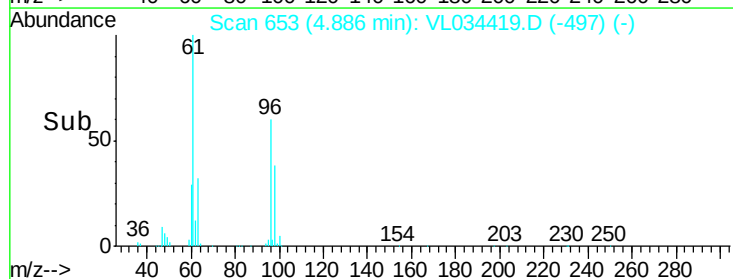
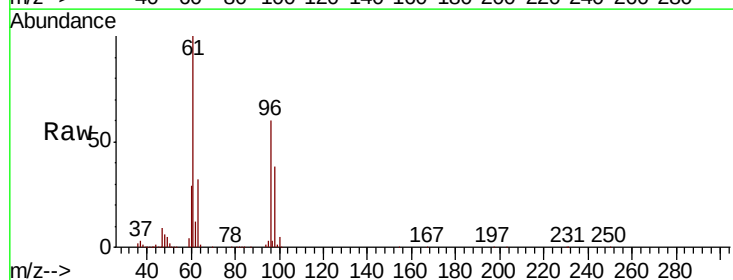
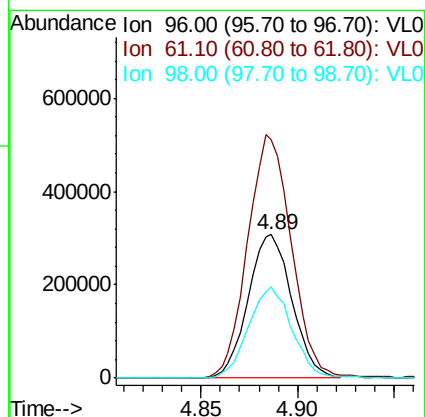
Manual Integrations
APPROVED

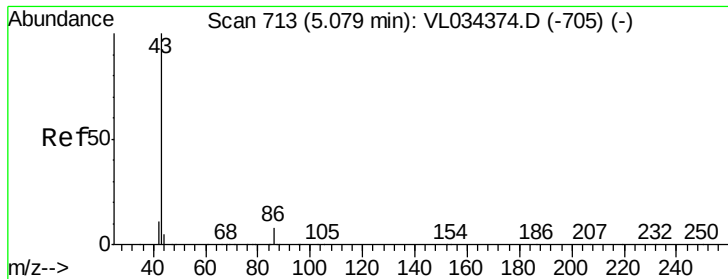
apatel
12/2/2019 10:04:37 AM



#22
trans-1,2-Dichloroethene
Concen: 10.251 ppbv
RT: 4.89 min Scan# 653
Delta R.T. 0.00 min
Lab File: VL034419.D
Acq: 25 Nov 2019 23:35

Tgt Ion	Ratio	Lower	Upper
96	100		
61	166.3	137.9	206.9
98	63.5	53.5	80.3





#23

Vinyl Acetate

Concen: 10.843 ppbv

RT: 5.08 min Scan# 712

Delta R.T. -0.00 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1822772

Ion Ratio Lower Upper

43 100

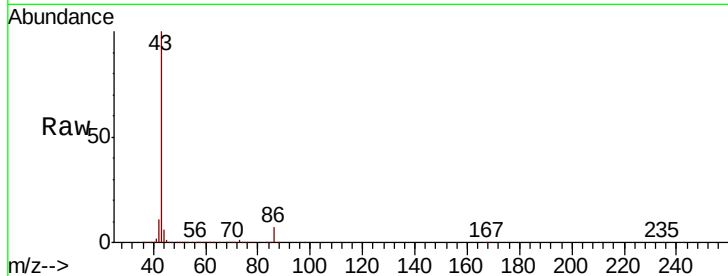
86 6.9 5.8 8.6

42 11.0 8.9 13.3

44 5.9 4.0 6.0

Manual Integrations
APPROVED

apatel
12/2/2019 10:04:37 AM

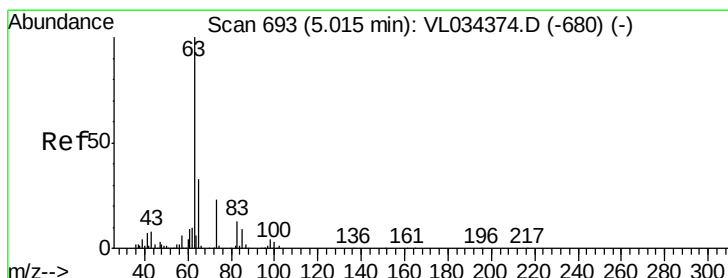
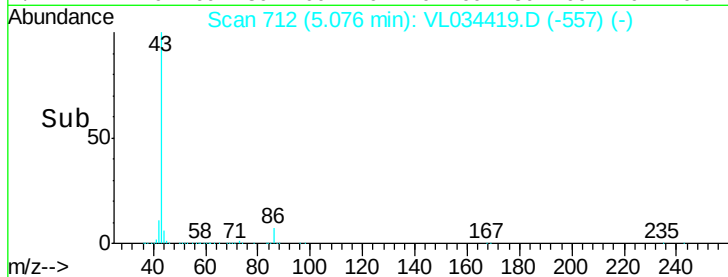
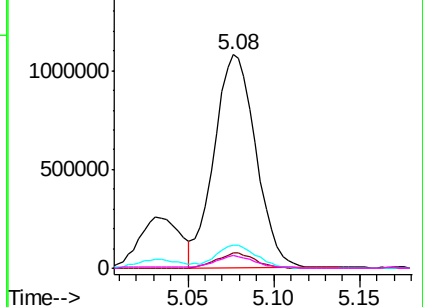


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.893 ppbv

RT: 5.01 min Scan# 692

Delta R.T. -0.00 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

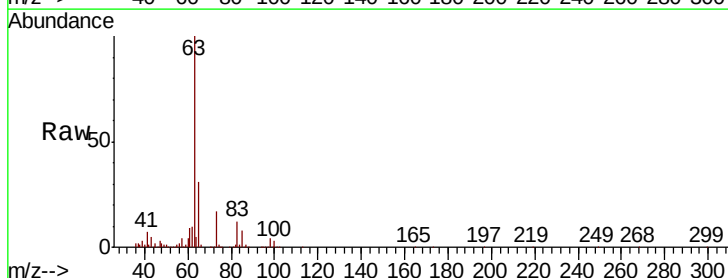
Tgt Ion: 63 Resp: 1277427

Ion Ratio Lower Upper

63 100

98 3.6 1.9 5.7

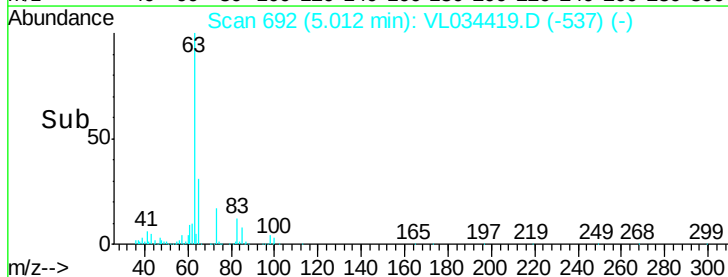
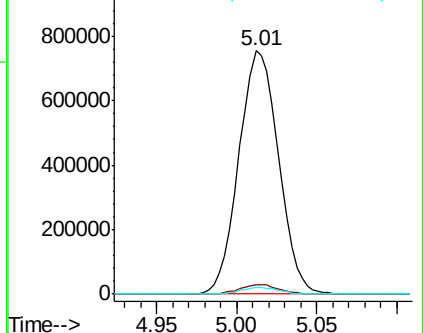
100 2.6 1.4 4.0

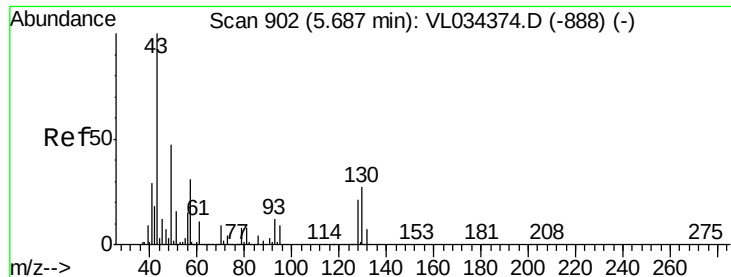


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.891 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2271310

Ion Ratio Lower Upper

43 100

45 10.5 8.2 12.4

61 9.6 7.5 11.3

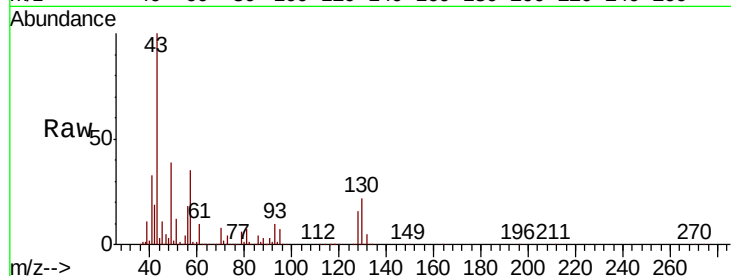
70 7.3 5.7 8.5

Manual Integrations

APPROVED

apatel

12/2/2019 10:04:37 AM

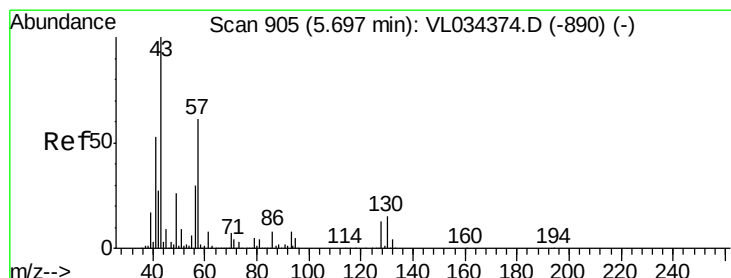
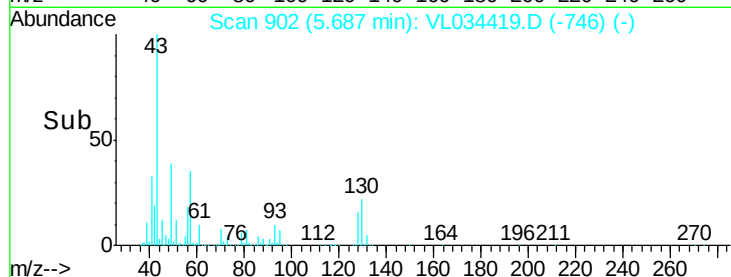
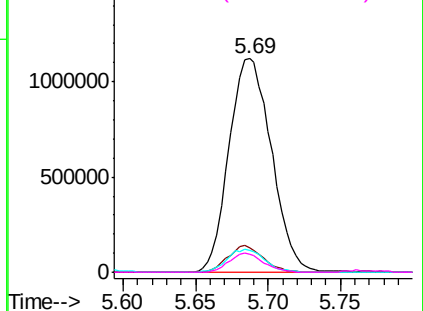


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.753 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.00 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

Tgt Ion: 57 Resp: 962296

Ion Ratio Lower Upper

57 100

41 95.6 75.0 112.4

43 237.2 186.6 279.8

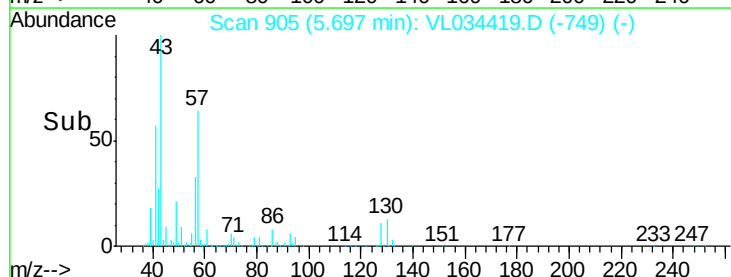
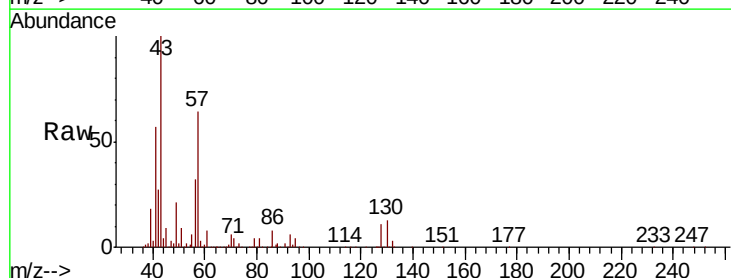
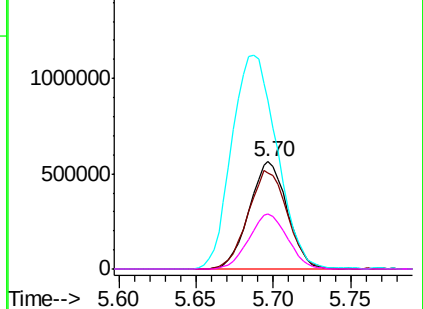
56 52.3 41.5 62.3

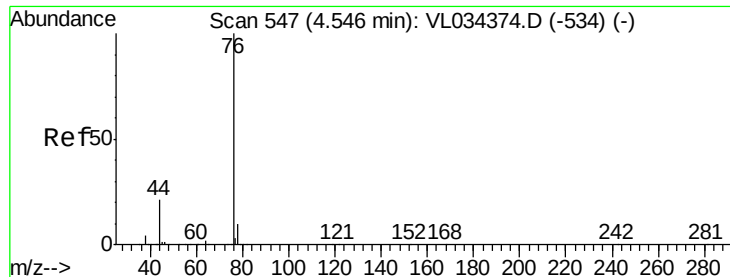
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 11.236 ppbv

RT: 4.55 min Scan# 547

Delta R.T. 0.00 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1207525

Ion Ratio Lower Upper

76 100

44 20.0 17.0 25.4

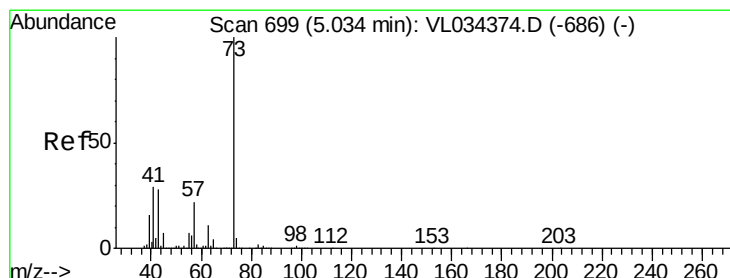
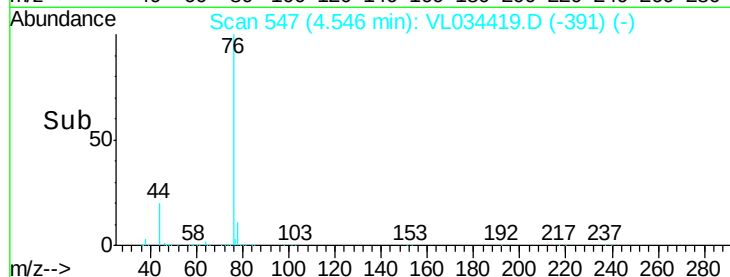
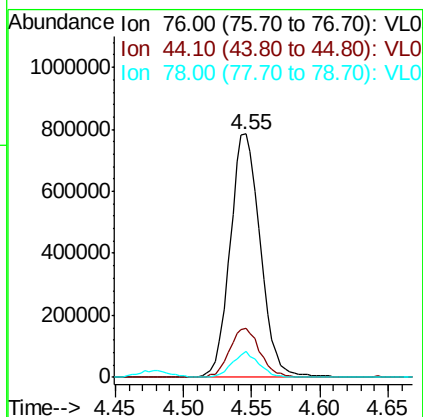
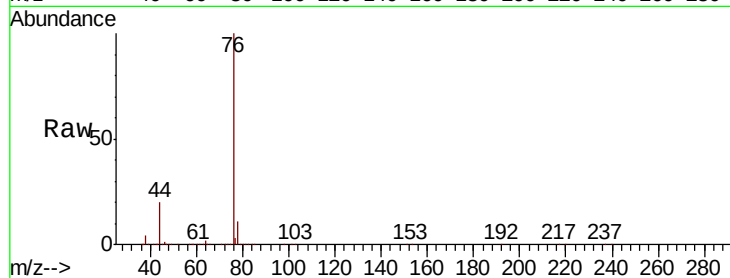
78 9.6 7.6 11.4

Manual Integrations

APPROVED

apatel

12/2/2019 10:04:37 AM



#28

Methyl tert-Butyl Ether

Concen: 9.798 ppbv

RT: 5.03 min Scan# 699

Delta R.T. 0.00 min

Lab File: VL034419.D

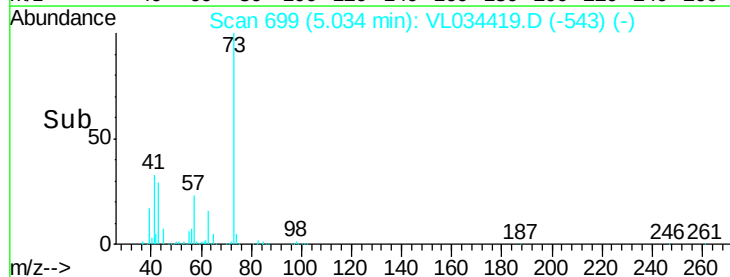
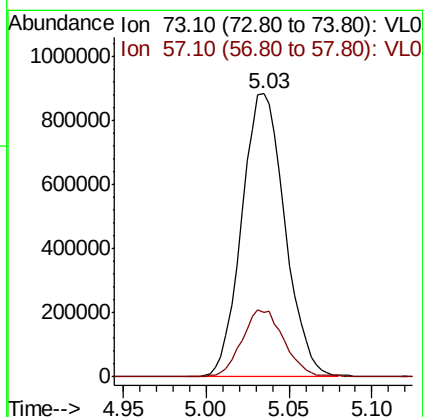
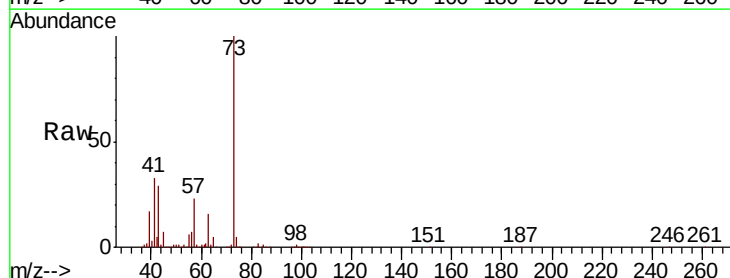
Acq: 25 Nov 2019 23:35

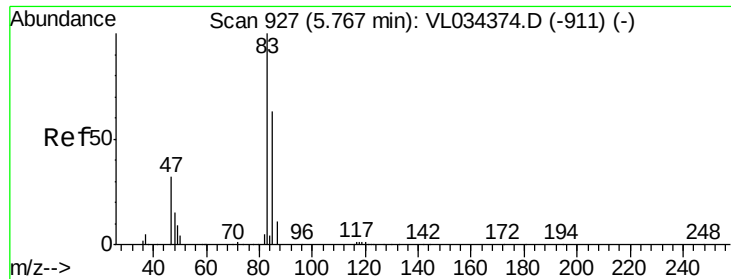
Tgt Ion: 73 Resp: 1603041

Ion Ratio Lower Upper

73 100

57 23.3 18.4 27.6





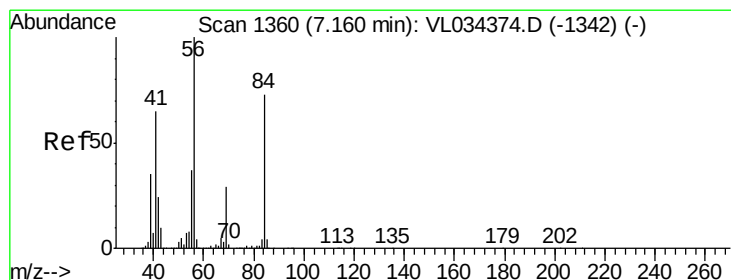
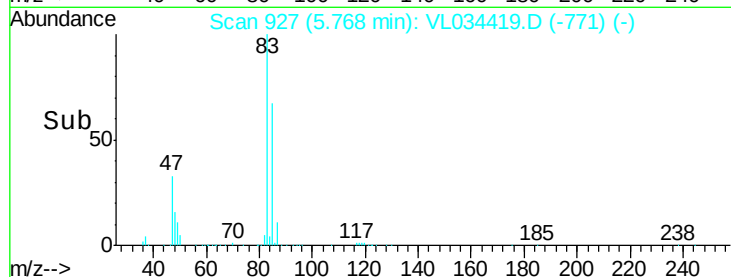
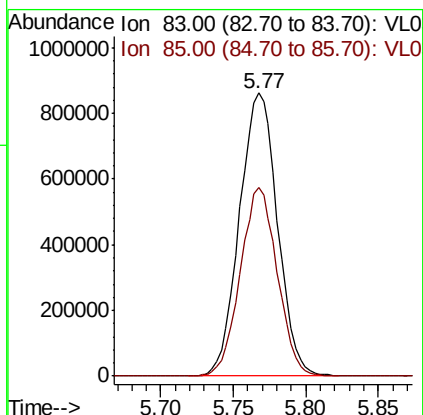
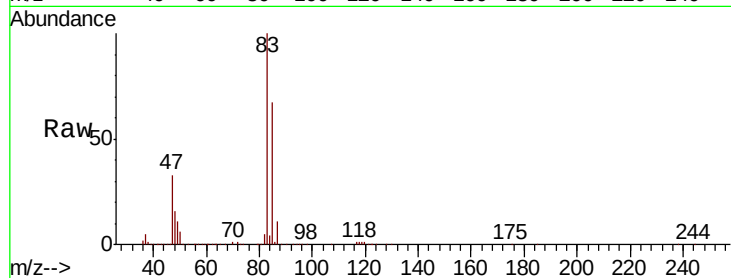
#29
Chloroform
Concen: 9.824 ppbv
RT: 5.77 min Scan# 927
Delta R.T. 0.00 min
Lab File: VL034419.D
Acq: 25 Nov 2019 23:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1569750
Ion Ratio Lower Upper
83 100
85 66.6 50.4 75.6

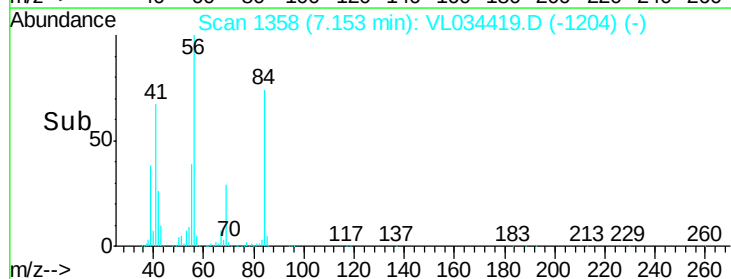
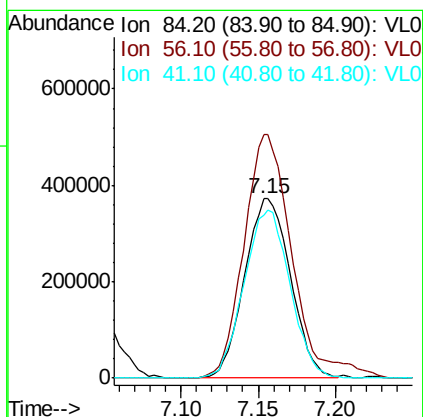
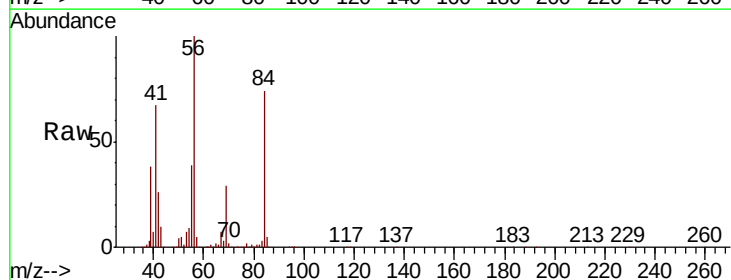
Manual Integrations
APPROVED

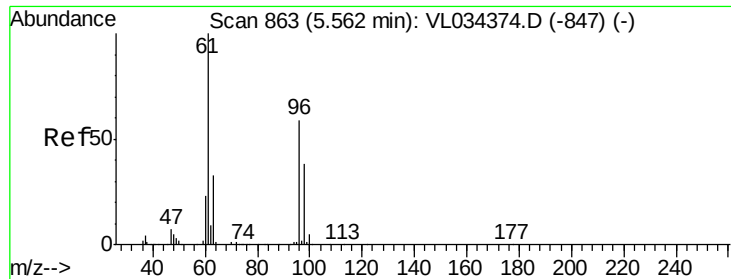
apatel
12/2/2019 10:04:37 AM



#30
Cyclohexane
Concen: 10.322 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. -0.01 min
Lab File: VL034419.D
Acq: 25 Nov 2019 23:35

Tgt Ion: 84 Resp: 769927
Ion Ratio Lower Upper
84 100
56 142.2 112.6 169.0
41 94.0 73.4 110.2





#31

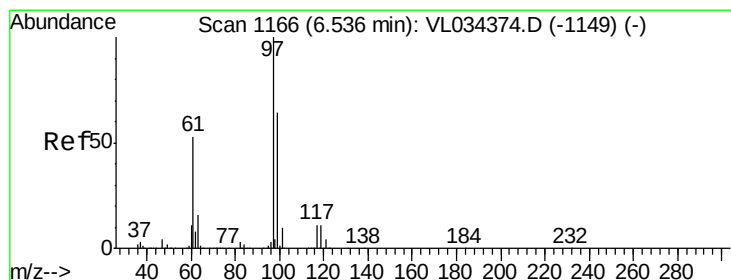
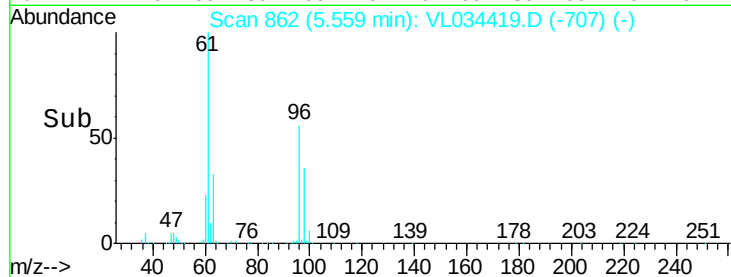
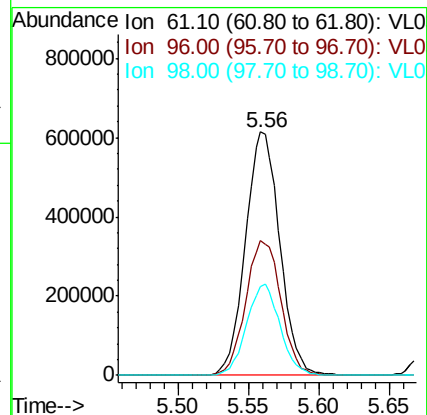
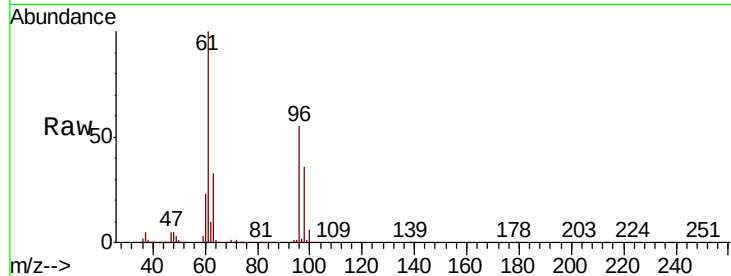
cis-1,2-Dichloroethene
Concen: 10.282 ppbv
RT: 5.56 min Scan# 862
Delta R.T. -0.00 min
Lab File: VL034419.D
Acq: 25 Nov 2019 23:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	55.4	47.4	71.2
98	36.4	30.6	45.8

Manual Integrations
APPROVED

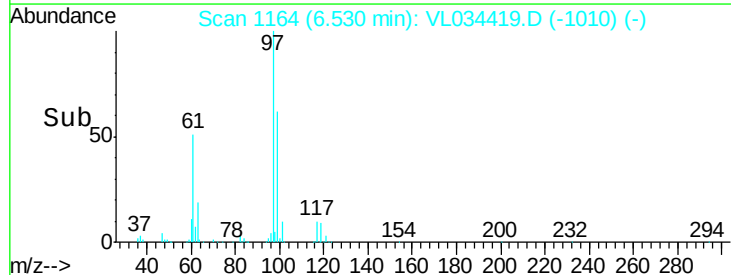
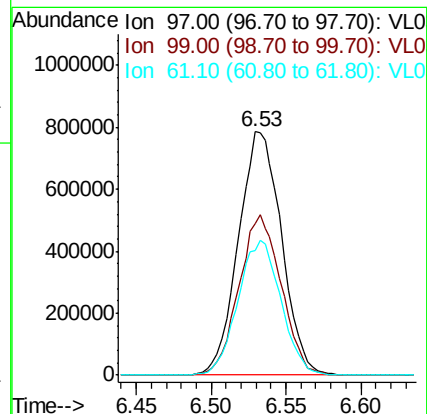
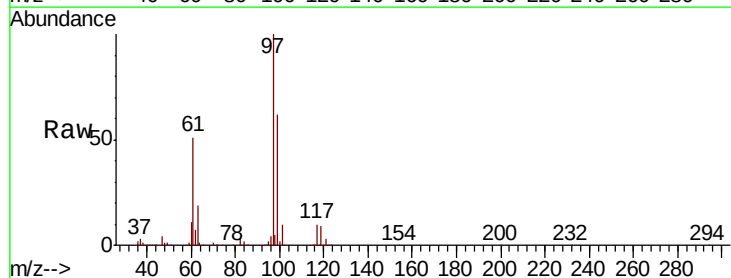
apatel
12/2/2019 10:04:37 AM

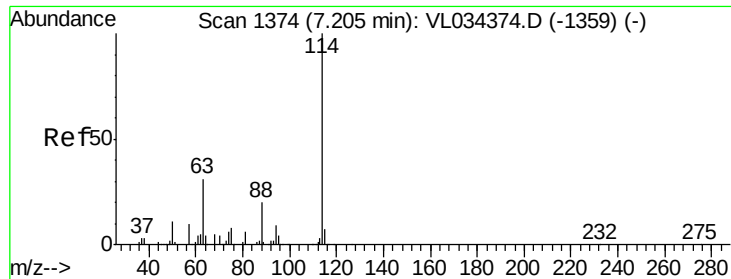


#32

1,1,1-Trichloroethane
Concen: 10.469 ppbv
RT: 6.53 min Scan# 1164
Delta R.T. -0.01 min
Lab File: VL034419.D
Acq: 25 Nov 2019 23:35

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.7	52.3	78.5
61	55.5	43.7	65.5





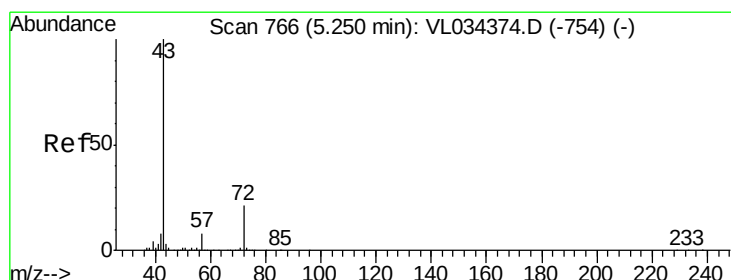
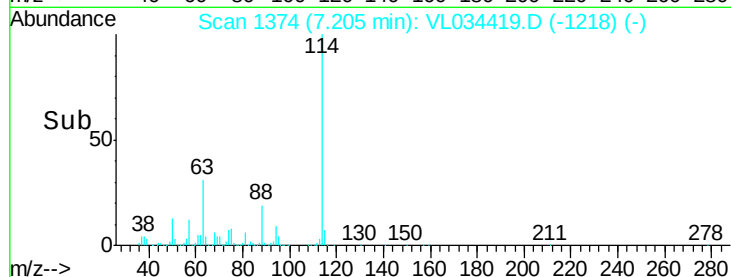
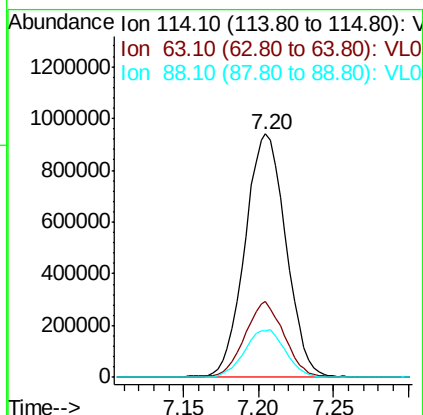
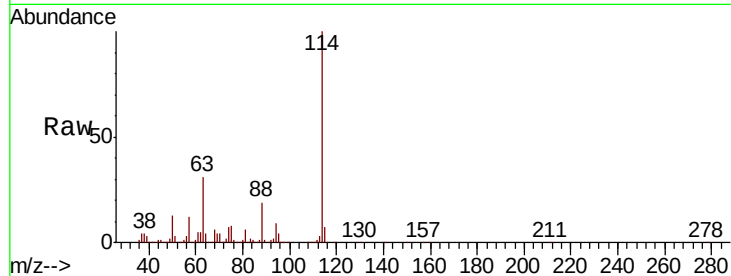
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1374
 Delta R.T. 0.00 min
 Lab File: VL034419.D
 Acq: 25 Nov 2019 23:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:114 Resp: 1790228
 Ion Ratio Lower Upper
 114 100
 63 30.4 24.2 36.4
 88 19.6 15.9 23.9

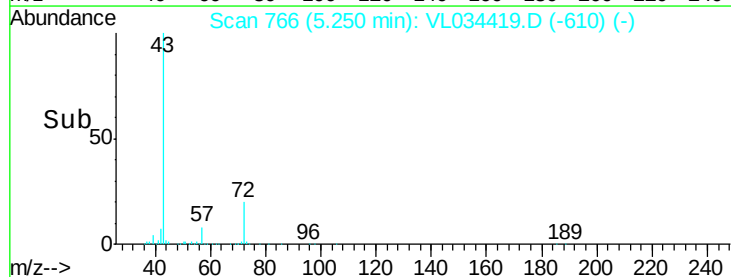
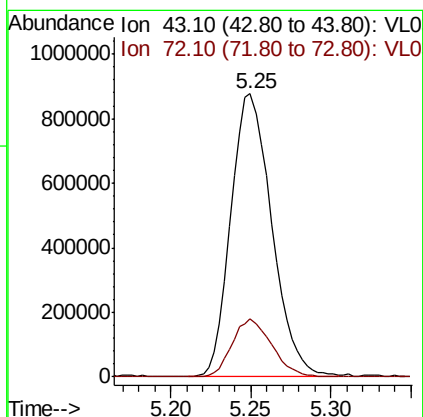
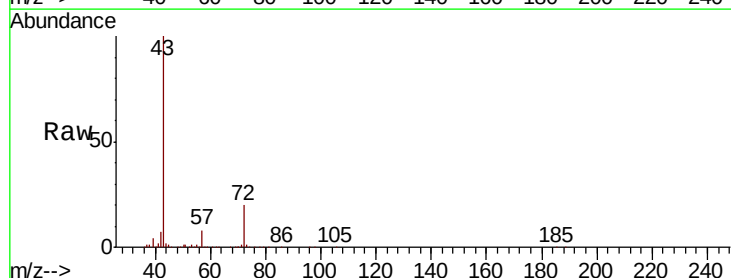
Manual Integrations
 APPROVED

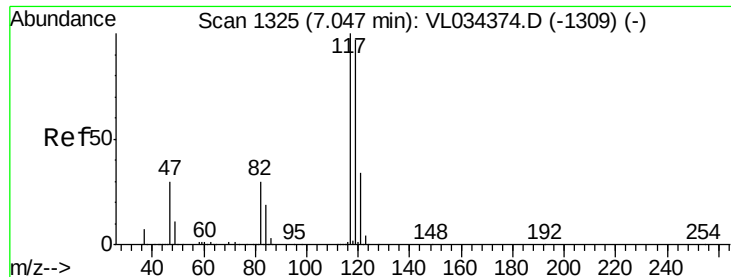
apatel
 12/2/2019 10:04:37 AM



#34
 2-Butanone
 Concen: 10.320 ppbv
 RT: 5.25 min Scan# 766
 Delta R.T. 0.00 min
 Lab File: VL034419.D
 Acq: 25 Nov 2019 23:35

Tgt Ion: 43 Resp: 1520729
 Ion Ratio Lower Upper
 43 100
 72 20.0 17.0 25.6





#35

Carbon Tetrachloride

Concen: 10.803 ppbv

RT: 7.04 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 1662865

Ion Ratio Lower Upper

117 100

119 95.9 77.3 115.9

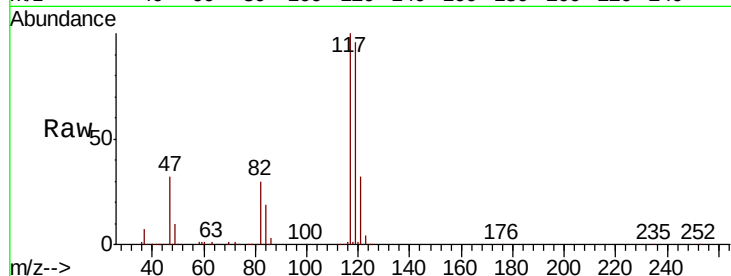
121 31.6 27.4 41.2

Manual Integrations

APPROVED

apatel

12/2/2019 10:04:37 AM

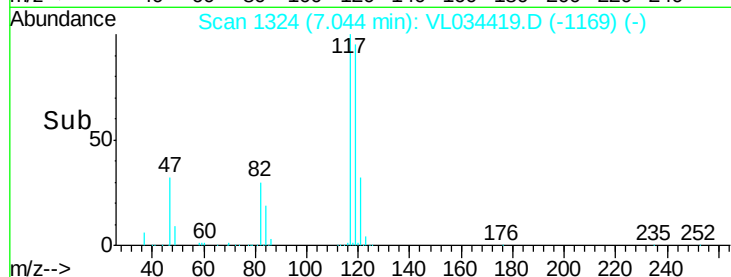


Abundance Ion 117.00 (116.70 to 117.70): V

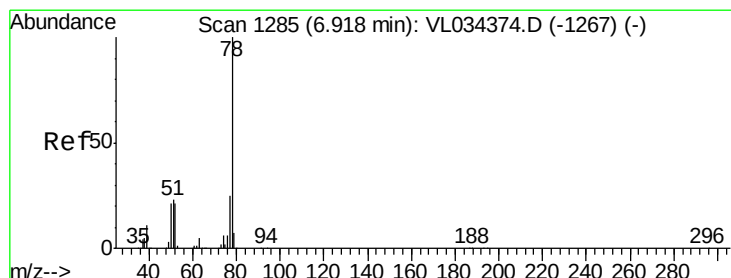
Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

Time-->



Time-->



#36

Benzene

Concen: 10.243 ppbv

RT: 6.92 min Scan# 1285

Delta R.T. 0.00 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

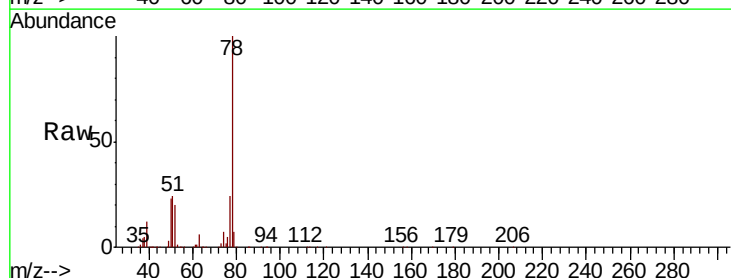
Tgt Ion: 78 Resp: 1833114

Ion Ratio Lower Upper

78 100

77 23.6 20.2 30.4

50 22.5 17.1 25.7

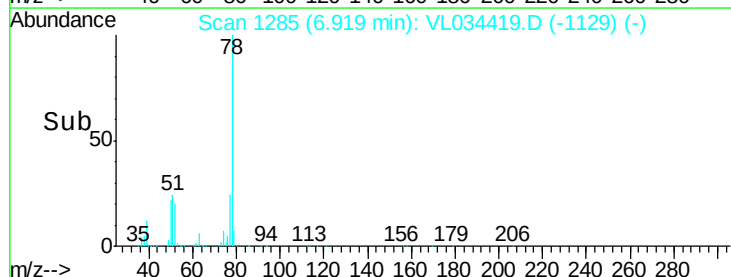


Abundance Ion 78.10 (77.80 to 78.80): VL0

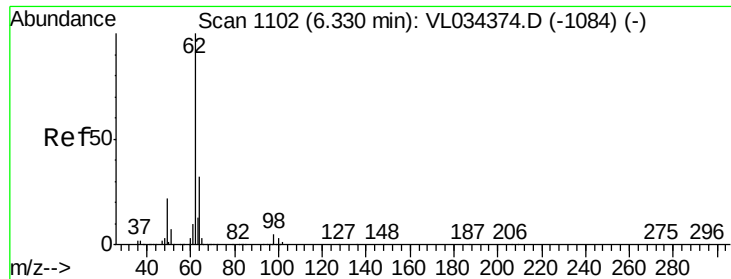
Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

Time-->



Time-->



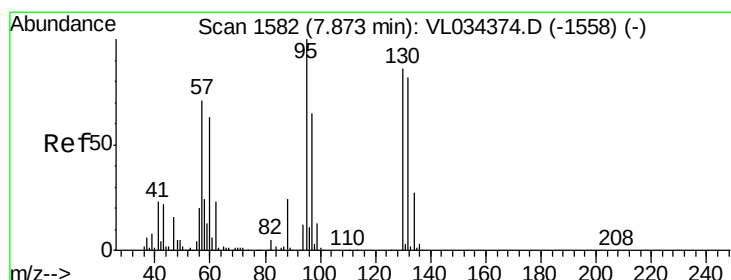
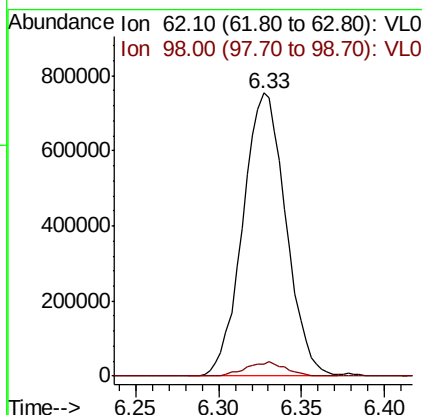
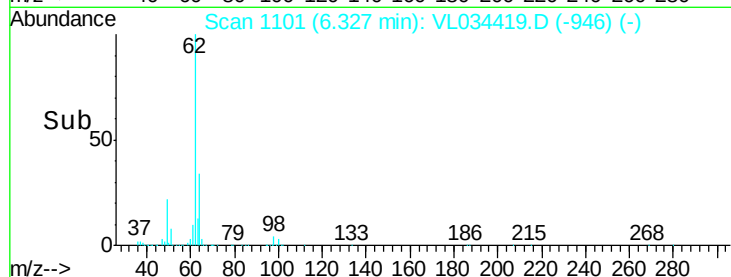
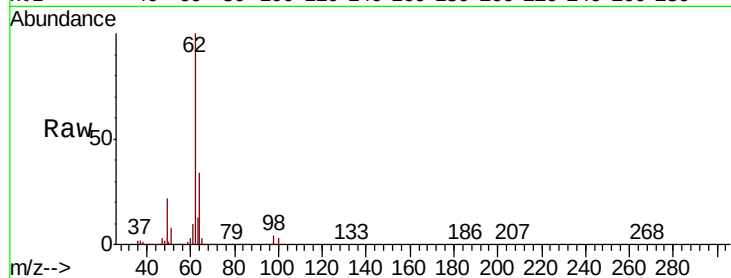
#37
1,2-Dichloroethane
Concen: 10.252 ppbv
RT: 6.33 min Scan# 1101
Delta R.T. -0.00 min
Lab File: VL034419.D
Acq: 25 Nov 2019 23:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 62 Resp: 1362957
Ion Ratio Lower Upper
62 100
98 4.8 3.8 5.8

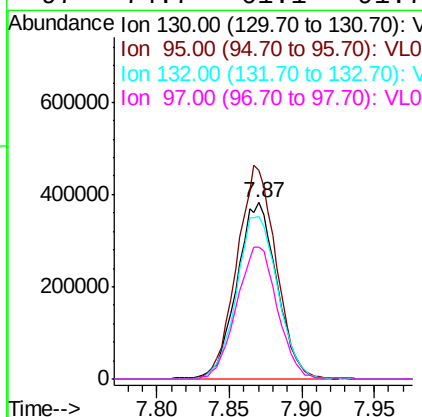
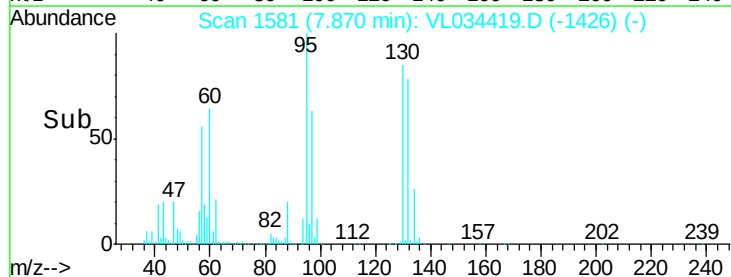
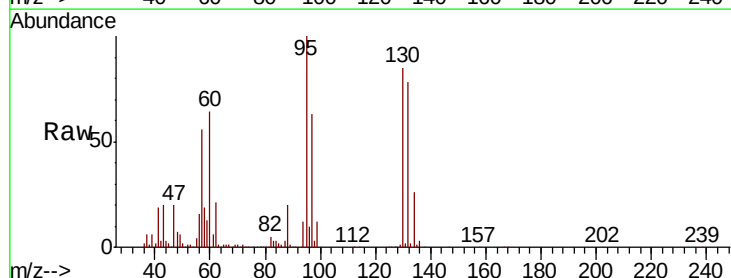
Manual Integrations
APPROVED

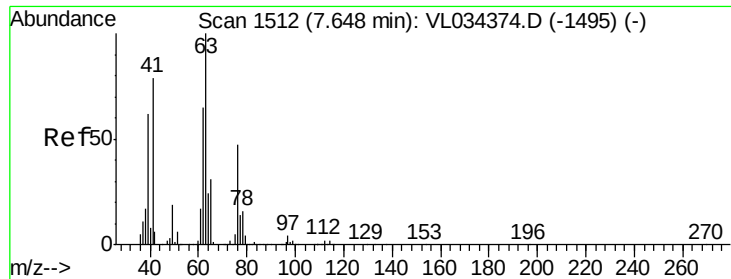
apatel
12/2/2019 10:04:37 AM



#38
Trichloroethene
Concen: 9.961 ppbv
RT: 7.87 min Scan# 1581
Delta R.T. -0.00 min
Lab File: VL034419.D
Acq: 25 Nov 2019 23:35

Tgt Ion:130 Resp: 731521
Ion Ratio Lower Upper
130 100
95 117.9 93.4 140.0
132 92.1 76.4 114.6
97 74.7 61.1 91.7





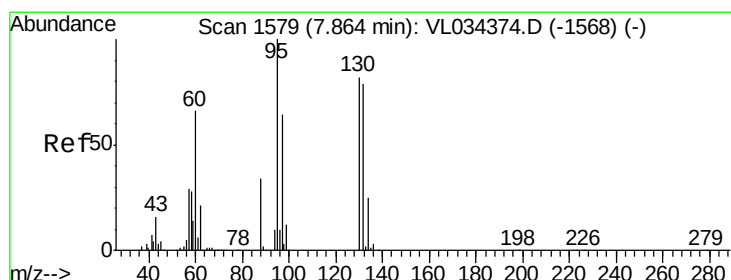
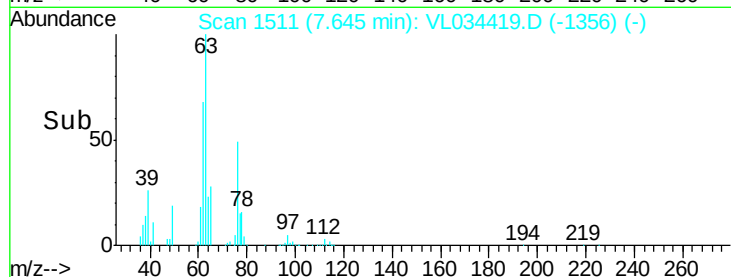
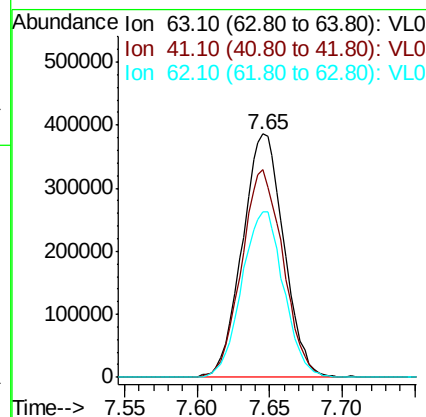
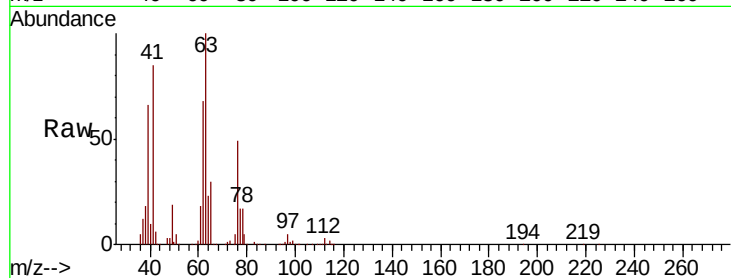
#39
 1,2-Dichloropropane
 Concen: 11.154 ppbv
 RT: 7.65 min Scan# 1511
 Delta R.T. -0.00 min
 Lab File: VL034419.D
 Acq: 25 Nov 2019 23:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	85.0	63.1	94.7
62	68.1	52.3	78.5

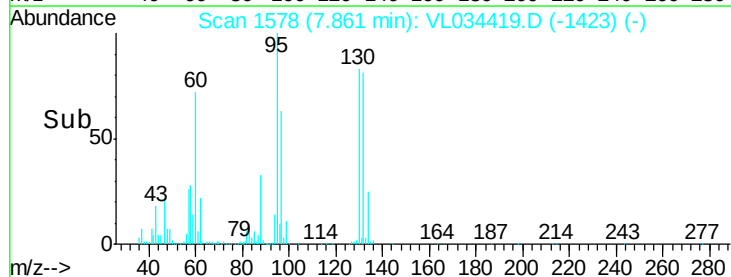
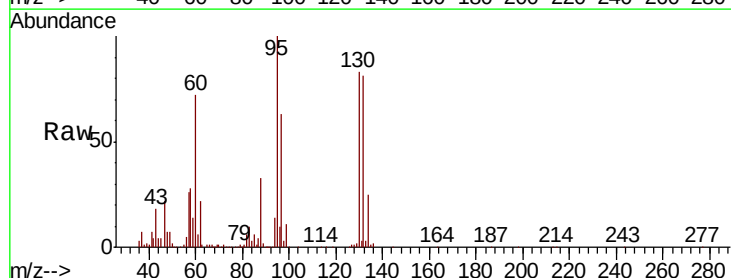
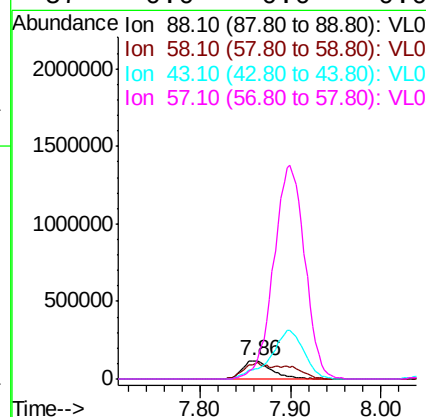
Manual Integrations
 APPROVED

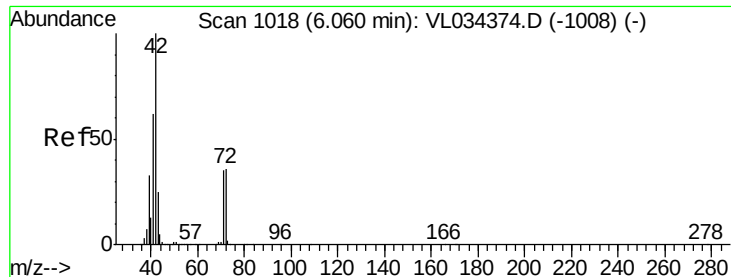
apatel
 12/2/2019 10:04:37 AM



#40
 1,4-Dioxane
 Concen: 9.051 ppbv m
 RT: 7.86 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: VL034419.D
 Acq: 25 Nov 2019 23:35

Tgt Ion	Ratio	Lower	Upper
88	100		
58	138.5	109.5	164.3
43	0.0	0.0	0.0
57	0.0	0.0	0.0





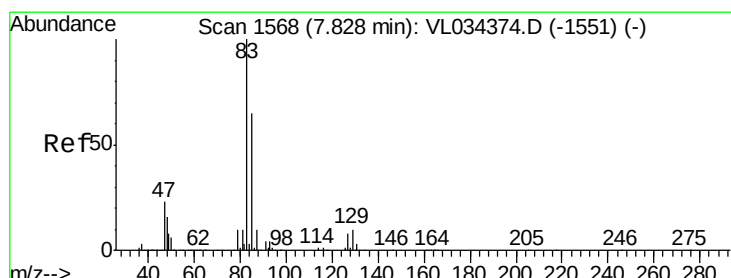
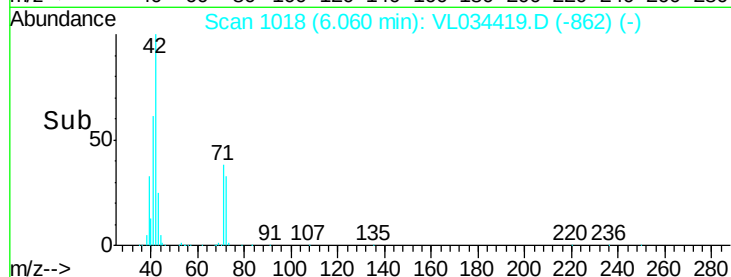
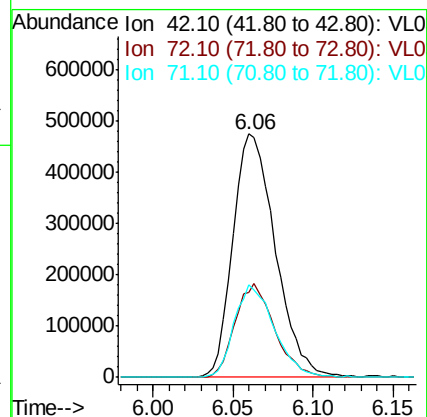
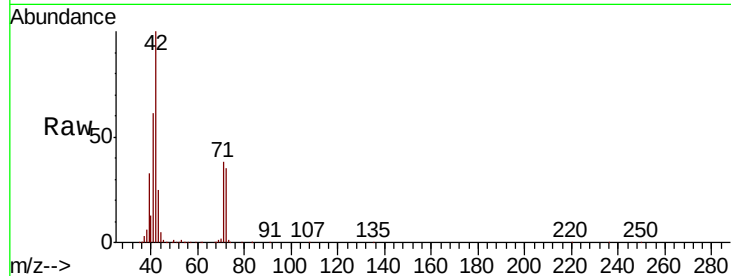
#41
Tetrahydrofuran
Concen: 10.372 ppbv
RT: 6.06 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VL034419.D
Acq: 25 Nov 2019 23:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.1	30.2	45.4
71	36.0	29.4	44.2

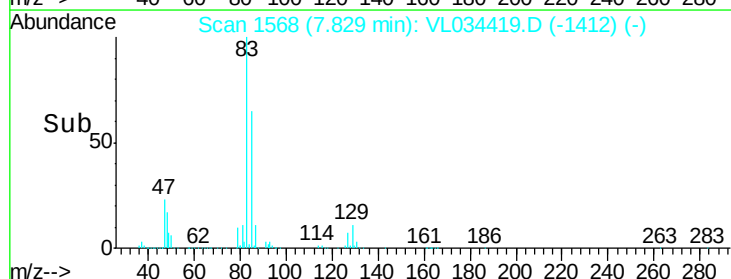
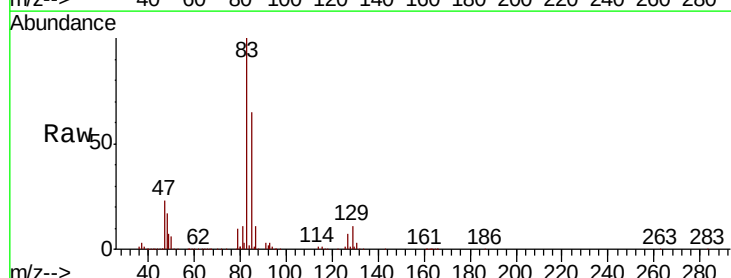
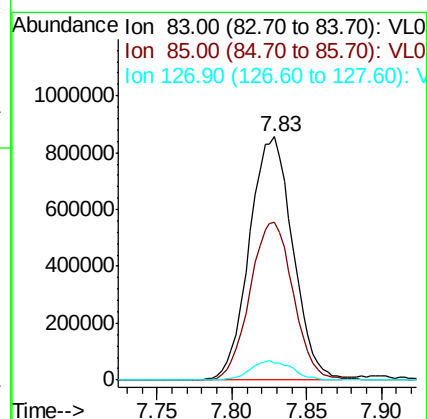
Manual Integrations
APPROVED

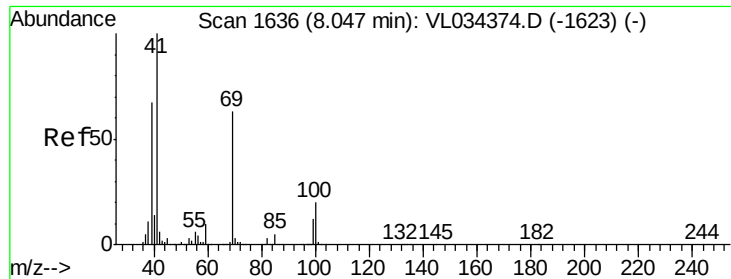
apatel
12/2/2019 10:04:37 AM



#42
Bromodichloromethane
Concen: 10.405 ppbv
RT: 7.83 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VL034419.D
Acq: 25 Nov 2019 23:35

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.6	52.3	78.5
127	7.2	6.1	9.1





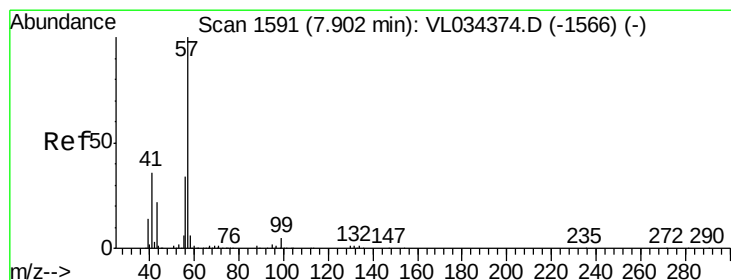
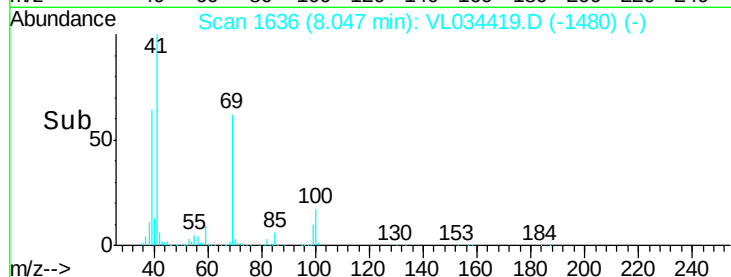
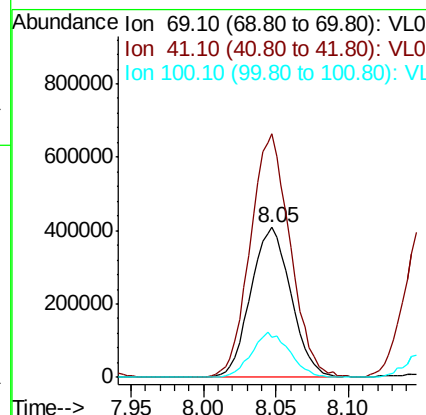
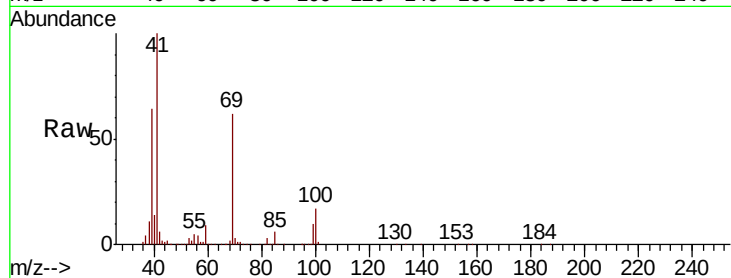
#43
Methyl Methacrylate
Concen: 10.662 ppbv
RT: 8.05 min Scan# 1636
Delta R.T. 0.00 min
Lab File: VL034419.D
Acq: 25 Nov 2019 23:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	160.8	127.4	191.2	
100	28.6	24.2	36.4	

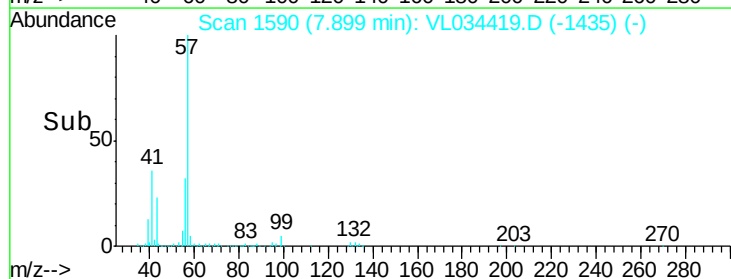
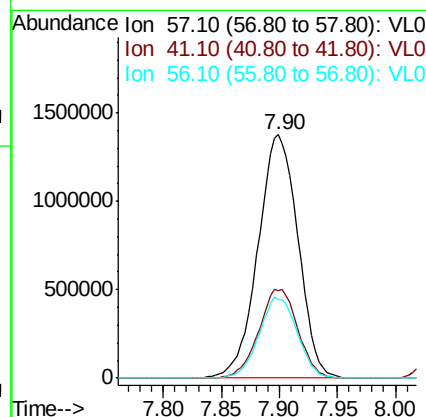
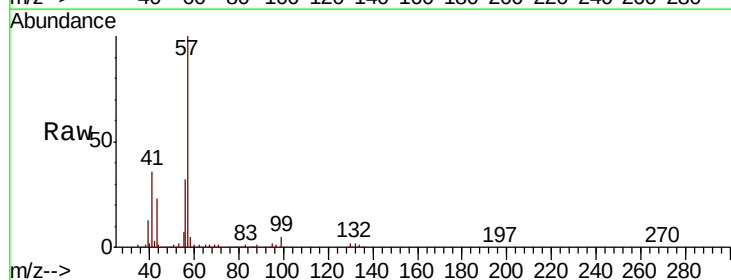
Manual Integrations
APPROVED

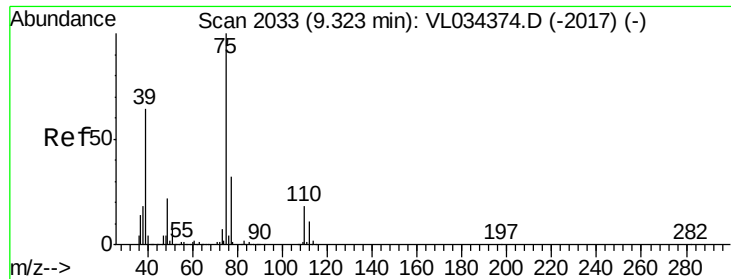
apatel
12/2/2019 10:04:37 AM



#44
2,2,4-Trimethylpentane
Concen: 10.097 ppbv
RT: 7.90 min Scan# 1590
Delta R.T. -0.00 min
Lab File: VL034419.D
Acq: 25 Nov 2019 23:35

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	35.5	28.6	42.8	
56	31.8	25.3	37.9	





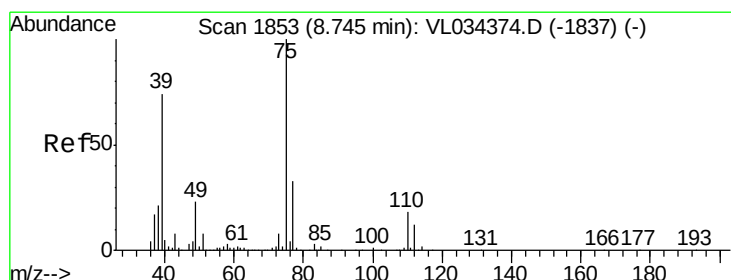
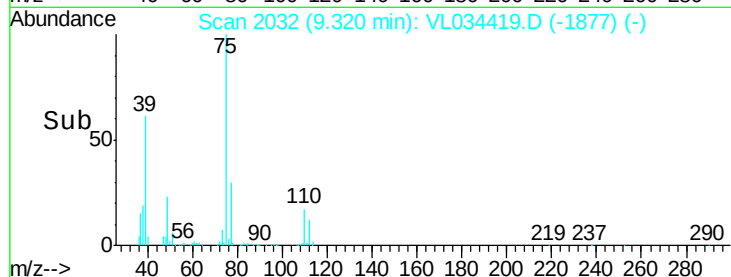
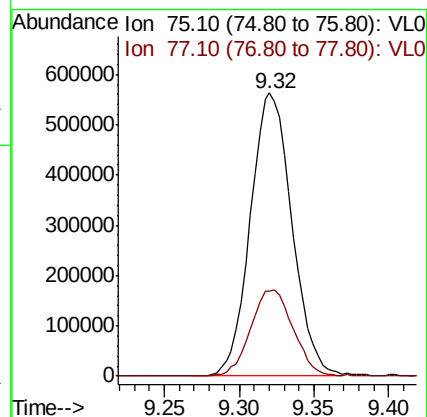
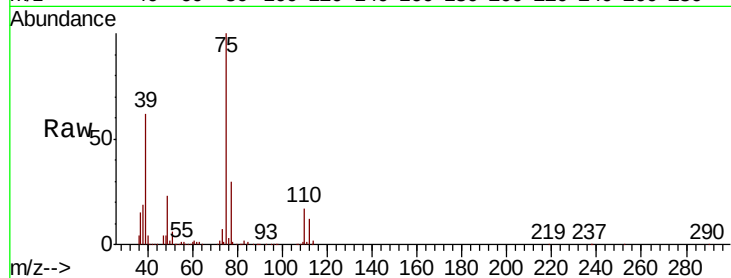
#45
t-1,3-Dichloropropene
Concen: 11.428 ppbv
RT: 9.32 min Scan# 2032
Delta R.T. -0.00 min
Lab File: VL034419.D
Acq: 25 Nov 2019 23:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 75 Resp: 1087862
Ion Ratio Lower Upper
75 100
77 30.2 25.4 38.2

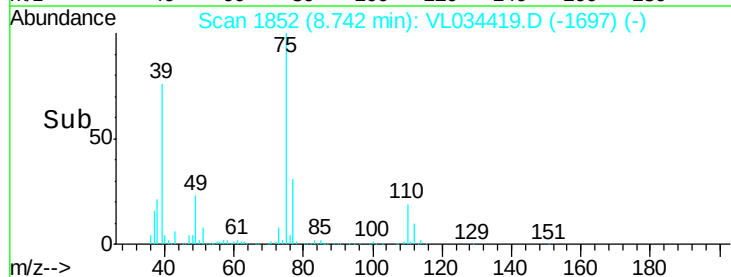
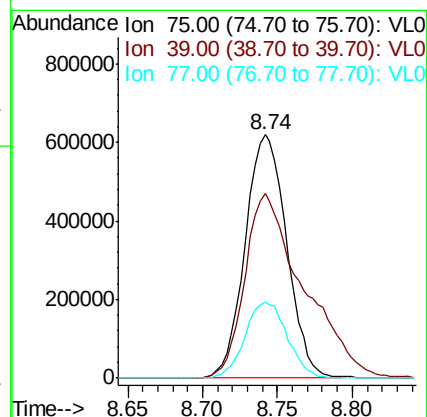
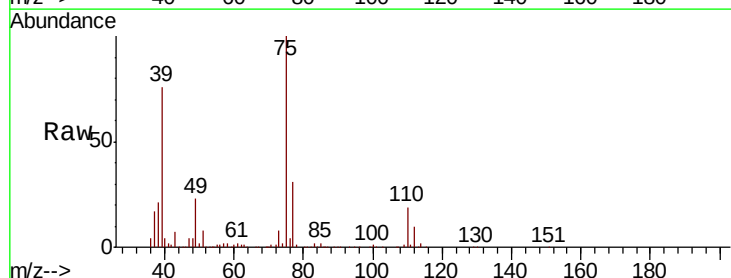
Manual Integrations
APPROVED

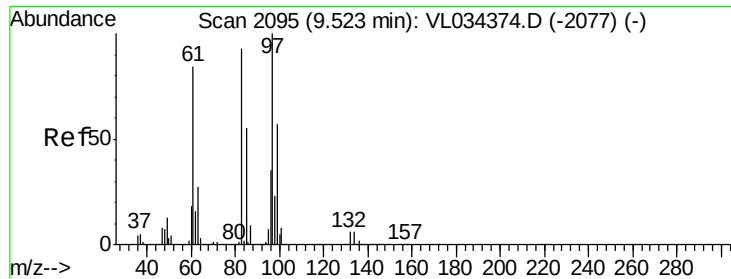
apatel
12/2/2019 10:04:37 AM



#46
cis-1,3-Dichloropropene
Concen: 11.198 ppbv
RT: 8.74 min Scan# 1852
Delta R.T. -0.00 min
Lab File: VL034419.D
Acq: 25 Nov 2019 23:35

Tgt Ion: 75 Resp: 1197277
Ion Ratio Lower Upper
75 100
39 75.9 59.0 88.6
77 31.3 26.4 39.6





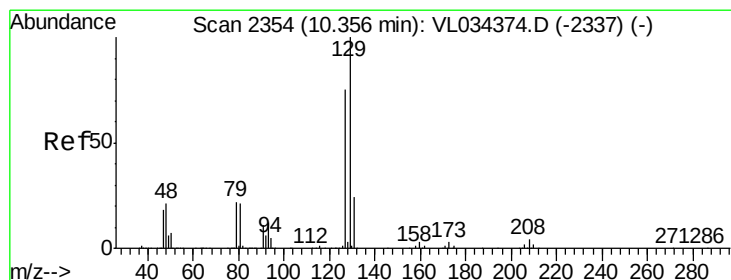
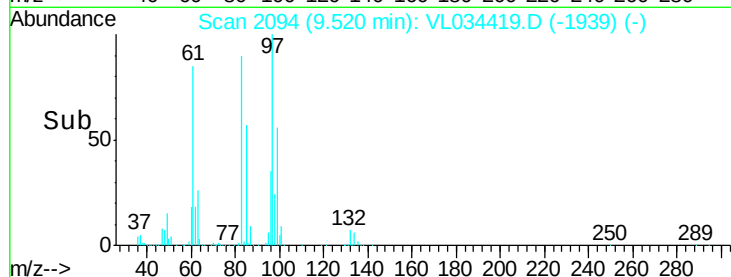
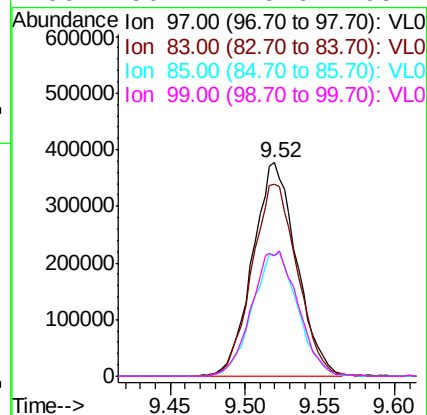
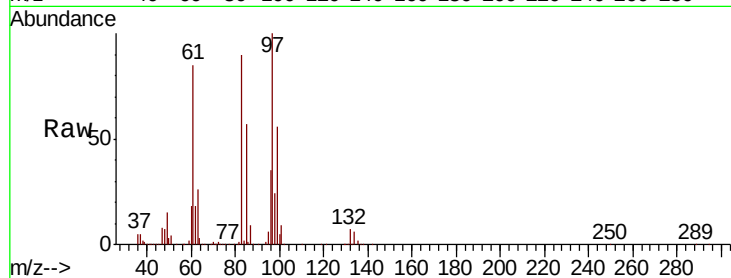
#47
 1,1,2-Trichloroethane
 Concen: 10.061 ppbv
 RT: 9.52 min Scan# 2094
 Delta R.T. -0.00 min
 Lab File: VL034419.D
 Acq: 25 Nov 2019 23:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	89.8	74.6	112.0	
85	56.7	43.8	65.8	
99	56.2	45.6	68.4	

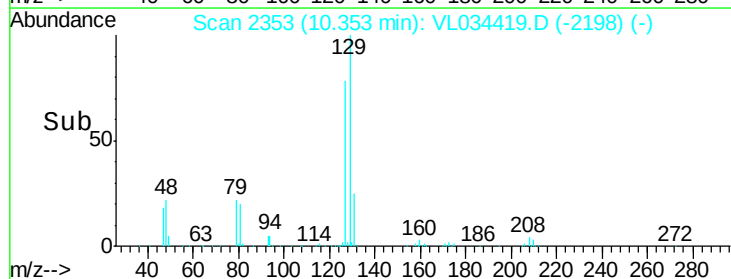
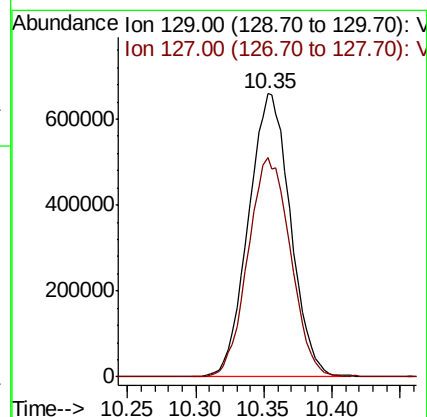
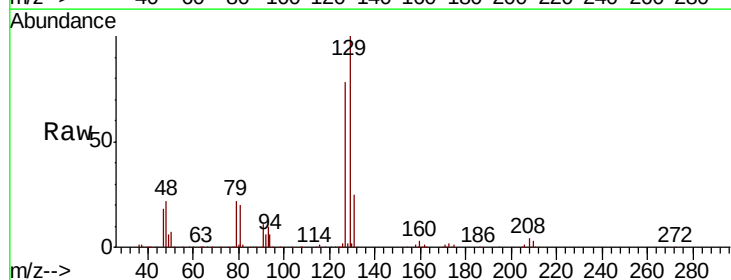
Manual Integrations
 APPROVED

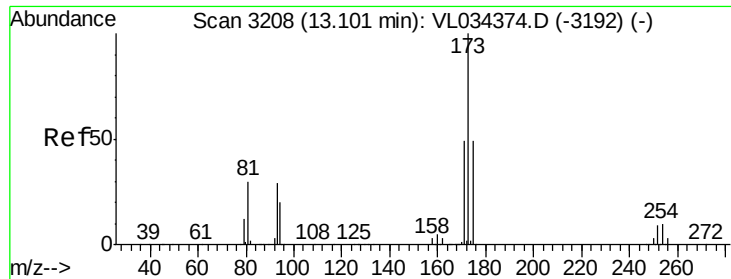
apatel
 12/2/2019 10:04:37 AM



#48
 Dibromochloromethane
 Concen: 10.694 ppbv
 RT: 10.35 min Scan# 2353
 Delta R.T. -0.00 min
 Lab File: VL034419.D
 Acq: 25 Nov 2019 23:35

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.7	39.1	117.5	





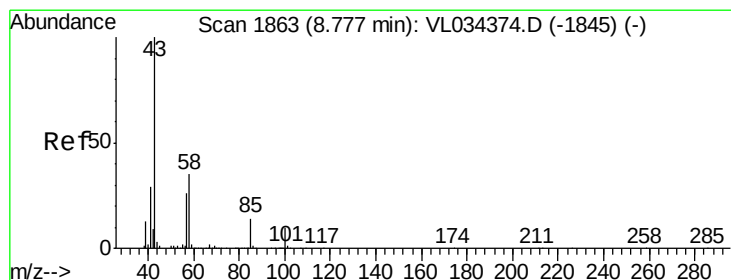
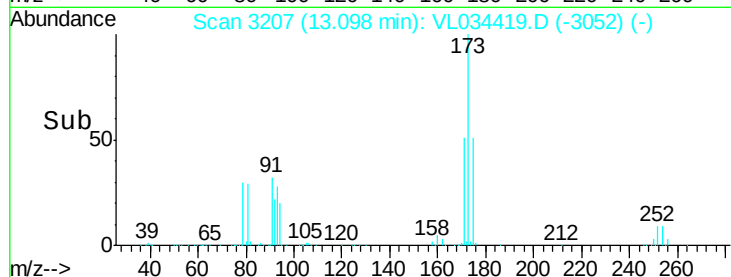
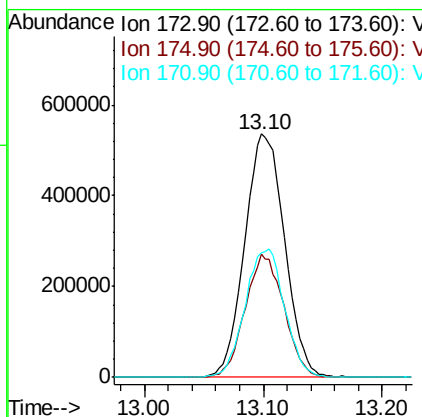
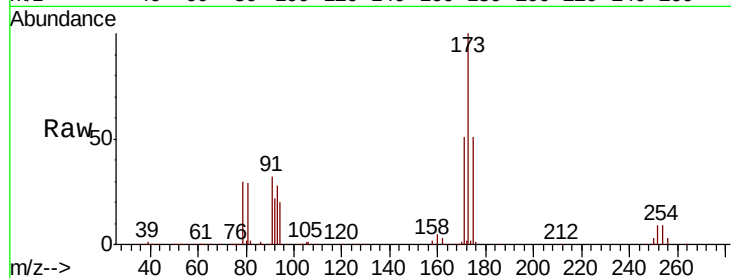
#49
Bromoform
Concen: 10.578 ppbv
RT: 13.10 min Scan# 3207
Delta R.T. -0.00 min
Lab File: VL034419.D
Acq: 25 Nov 2019 23:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:173 Resp: 1243429
Ion Ratio Lower Upper
173 100
175 49.1 39.3 58.9
171 52.3 42.4 63.6

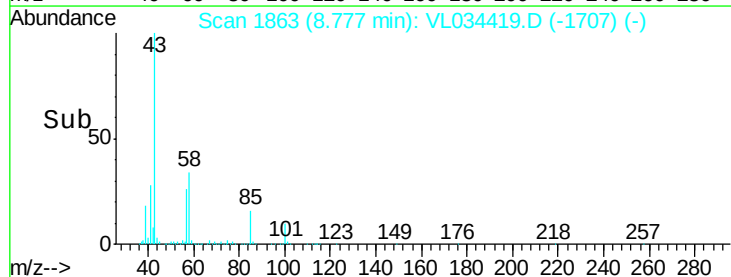
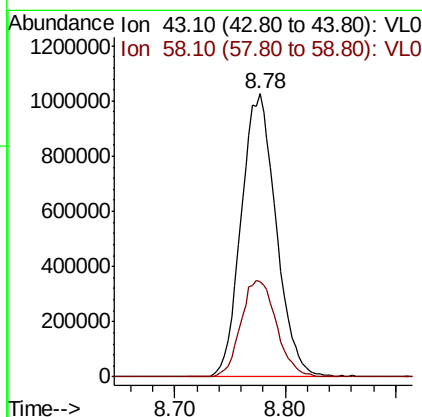
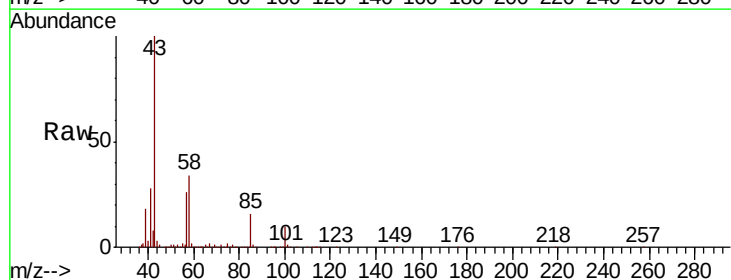
Manual Integrations
APPROVED

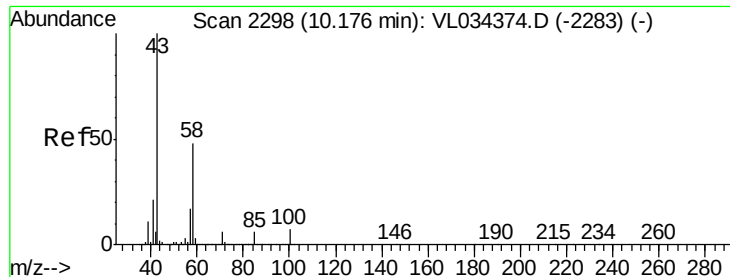
apatel
12/2/2019 10:04:37 AM



#50
4-Methyl-2-Pentanone
Concen: 10.533 ppbv
RT: 8.78 min Scan# 1863
Delta R.T. 0.00 min
Lab File: VL034419.D
Acq: 25 Nov 2019 23:35

Tgt Ion: 43 Resp: 2245710
Ion Ratio Lower Upper
43 100
58 34.8 27.9 41.9





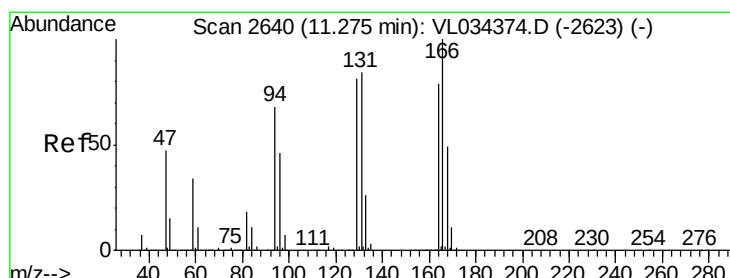
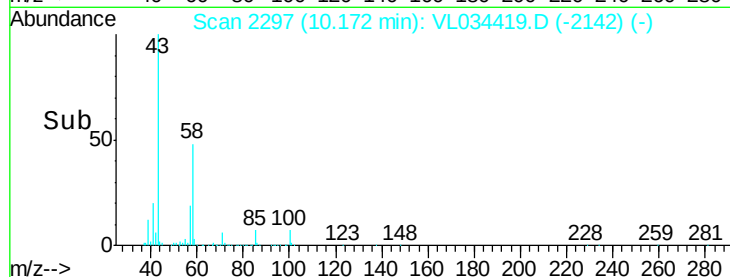
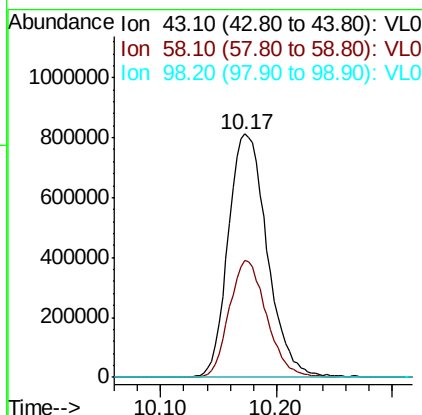
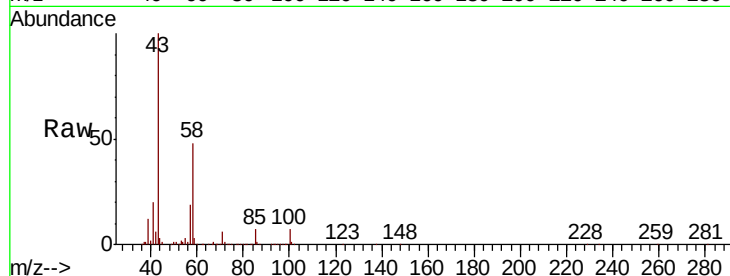
#51
2-Hexanone
Concen: 10.628 ppbv
RT: 10.17 min Scan# 2297
Delta R.T. -0.00 min
Lab File: VL034419.D
Acq: 25 Nov 2019 23:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1898000
Ion Ratio Lower Upper
43 100
58 46.2 38.2 57.4
98 0.2 0.2 0.2

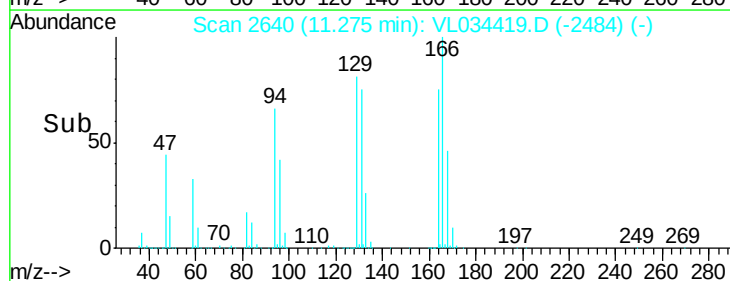
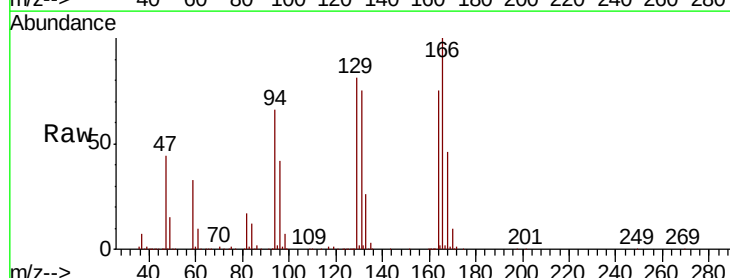
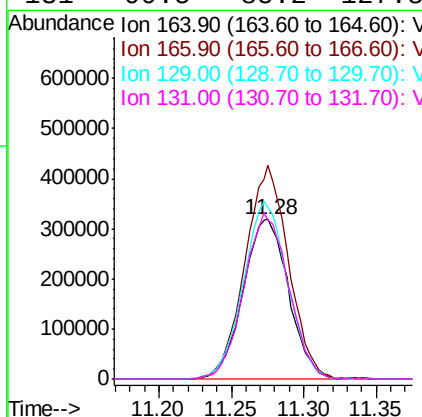
Manual Integrations
APPROVED

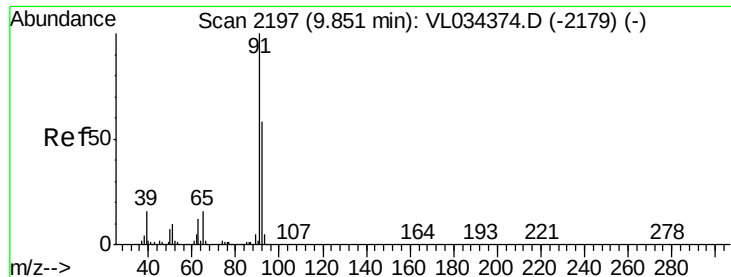
apatel
12/2/2019 10:04:37 AM



#52
Tetrachloroethene
Concen: 8.969 ppbv
RT: 11.28 min Scan# 2640
Delta R.T. 0.00 min
Lab File: VL034419.D
Acq: 25 Nov 2019 23:35

Tgt Ion:164 Resp: 694460
Ion Ratio Lower Upper
164 100
166 133.4 101.7 152.5
129 107.5 82.6 123.8
131 99.5 85.2 127.8





#53

Toluene

Concen: 10.489 ppbv

RT: 9.85 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2132101

Ion Ratio Lower Upper

91 100

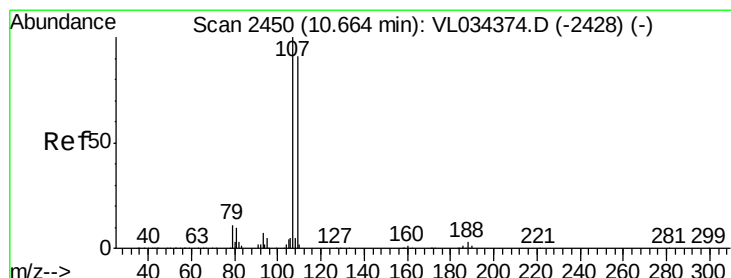
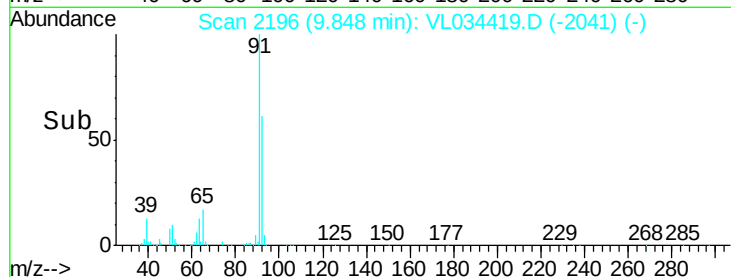
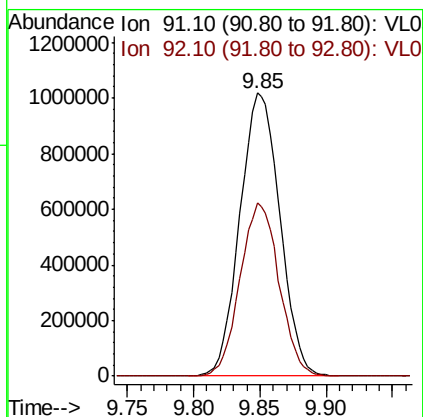
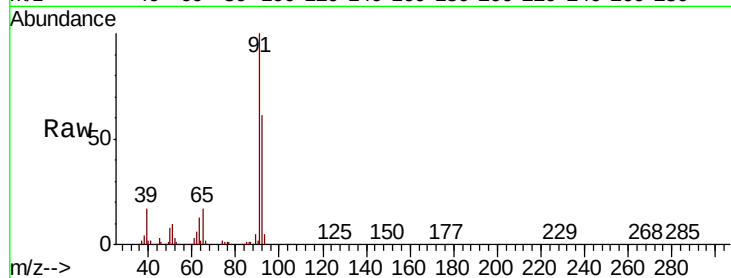
92 59.9 47.9 71.9

Manual Integrations

APPROVED

apatel

12/2/2019 10:04:37 AM



#54

1,2-Dibromoethane

Concen: 9.955 ppbv

RT: 10.66 min Scan# 2449

Delta R.T. -0.00 min

Lab File: VL034419.D

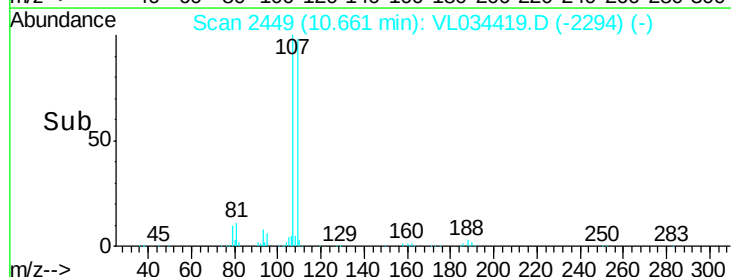
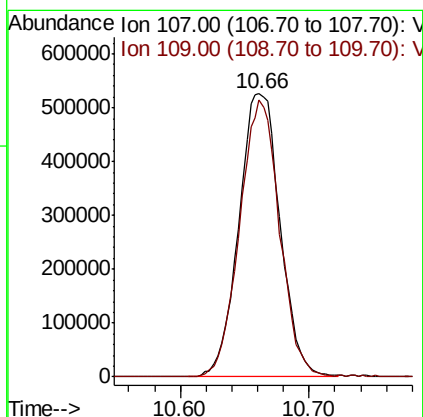
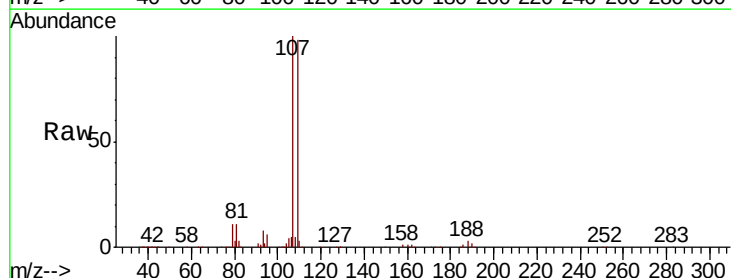
Acq: 25 Nov 2019 23:35

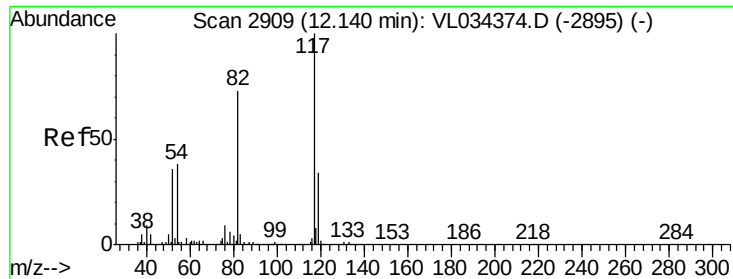
Tgt Ion: 107 Resp: 1170485

Ion Ratio Lower Upper

107 100

109 97.9 73.0 109.4





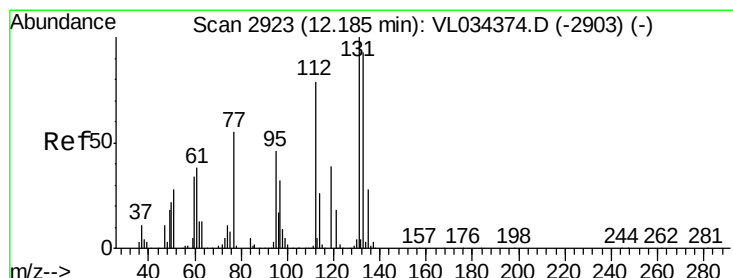
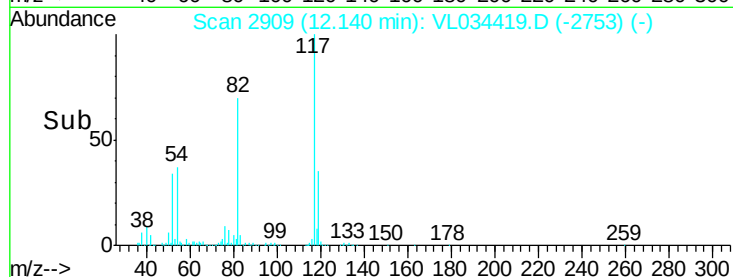
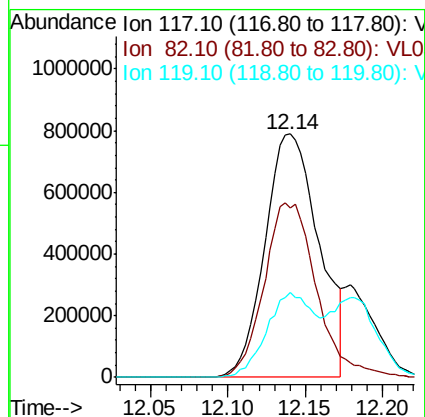
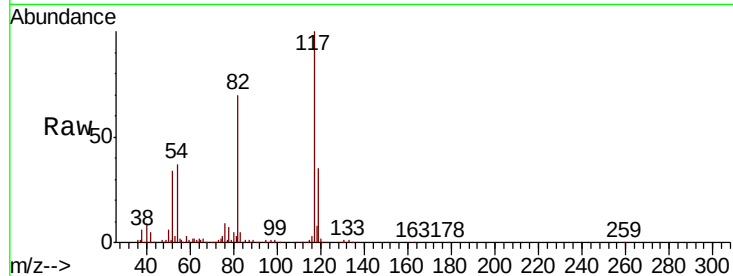
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2909
Delta R.T. 0.00 min
Lab File: VL034419.D
Acq: 25 Nov 2019 23:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	70.1	57.5	86.3
119	32.4	25.4	38.2

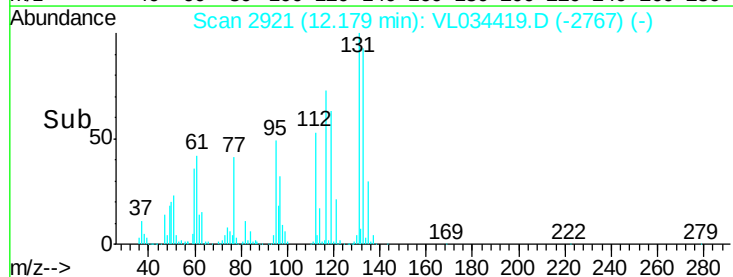
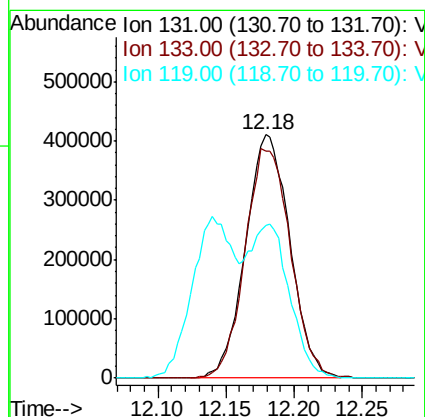
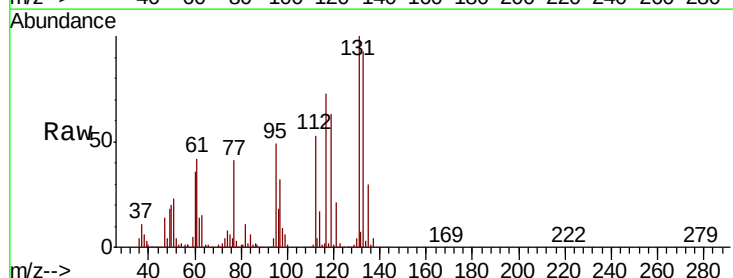
Manual Integrations
APPROVED

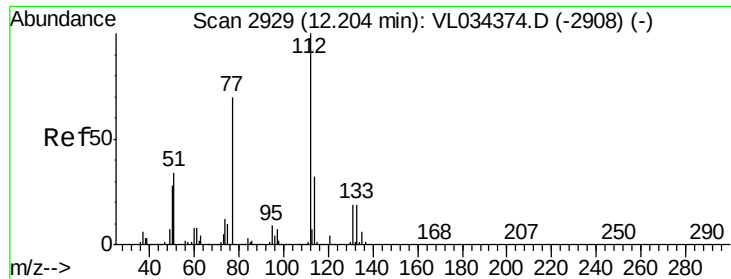
apatel
12/2/2019 10:04:37 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 9.880 ppbv
RT: 12.18 min Scan# 2921
Delta R.T. -0.01 min
Lab File: VL034419.D
Acq: 25 Nov 2019 23:35

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.8	76.2	114.2
119	64.6	44.6	67.0





#57

Chlorobenzene

Concen: 9.267 ppbv

RT: 12.20 min Scan# 2927

Delta R.T. -0.01 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 112 Resp: 1605348

Ion Ratio Lower Upper

112 100

77 70.9 57.1 85.7

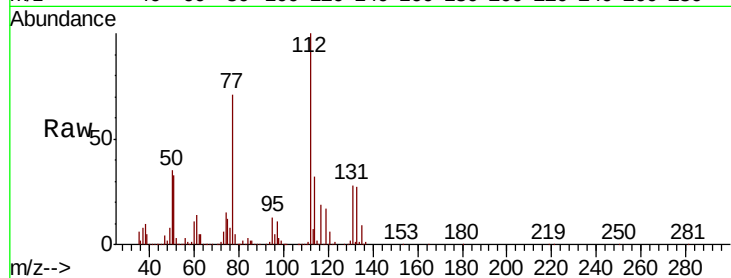
114 32.0 28.5 34.9

Manual Integrations

APPROVED

apatel

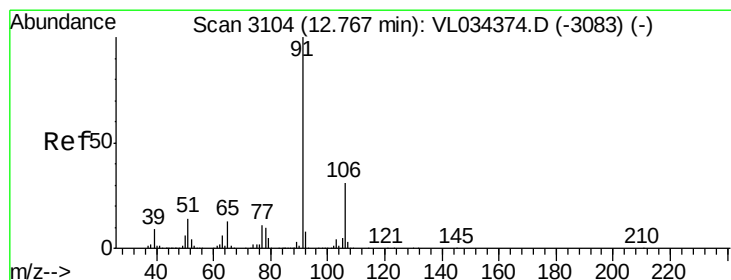
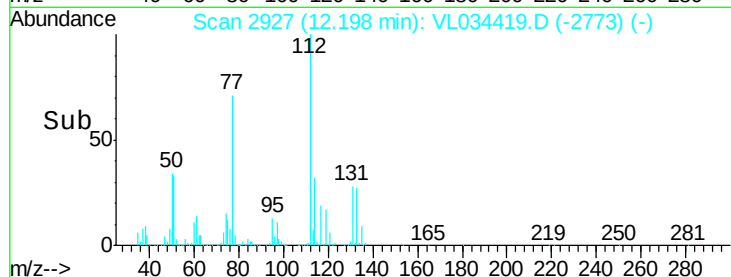
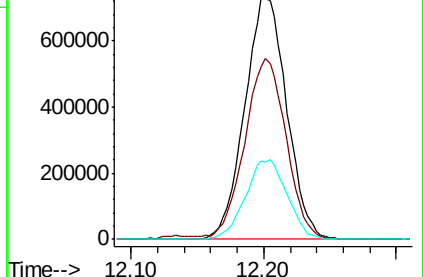
12/2/2019 10:04:37 AM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.784 ppbv

RT: 12.76 min Scan# 3103

Delta R.T. -0.00 min

Lab File: VL034419.D

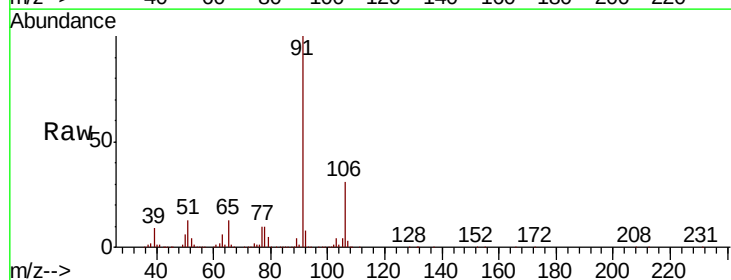
Acq: 25 Nov 2019 23:35

Tgt Ion: 91 Resp: 2909736

Ion Ratio Lower Upper

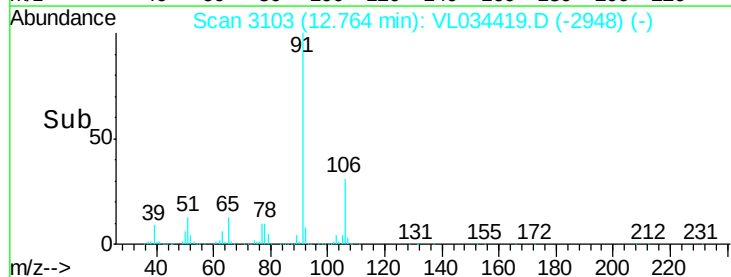
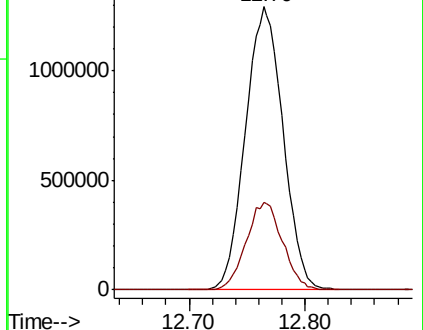
91 100

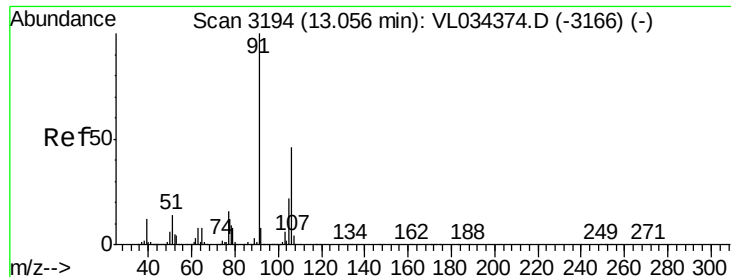
106 31.0 24.8 37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





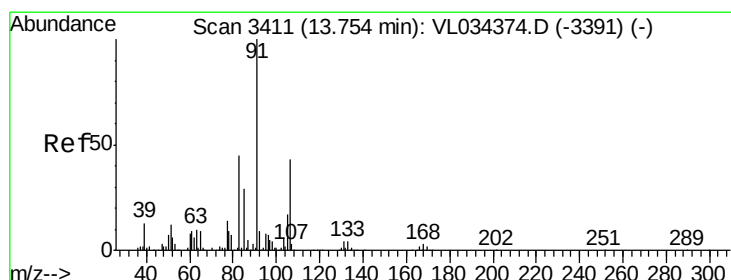
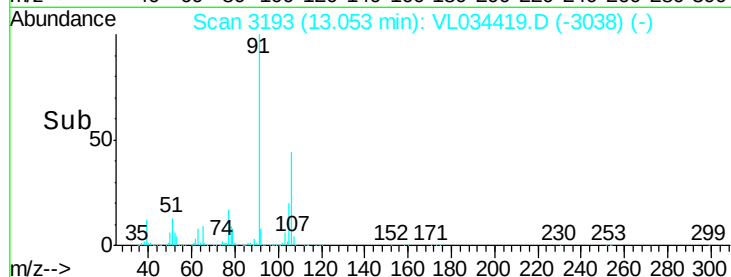
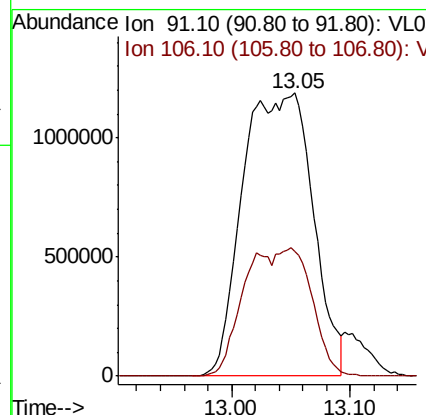
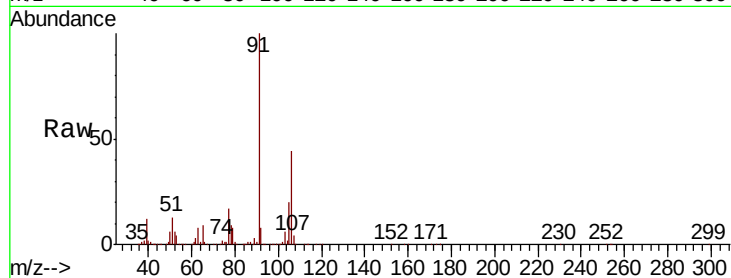
#59
m/p-Xylene
Concen: 18.806 ppbv m
RT: 13.05 min Scan# 3193
Delta R.T. -0.00 min
Lab File: VL034419.D
Acq: 25 Nov 2019 23:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 4834630
Ion Ratio Lower Upper
91 100
106 43.6 34.6 51.8

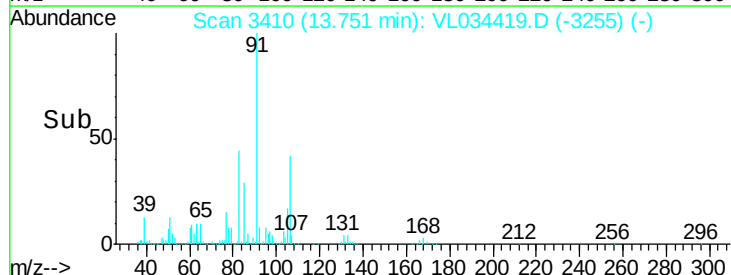
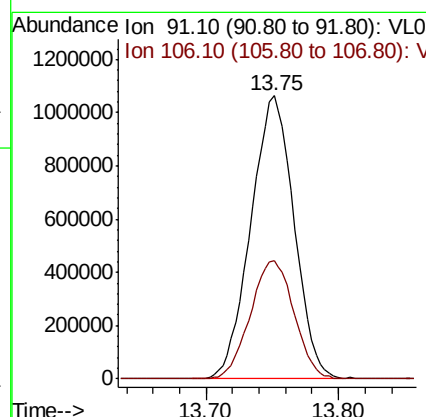
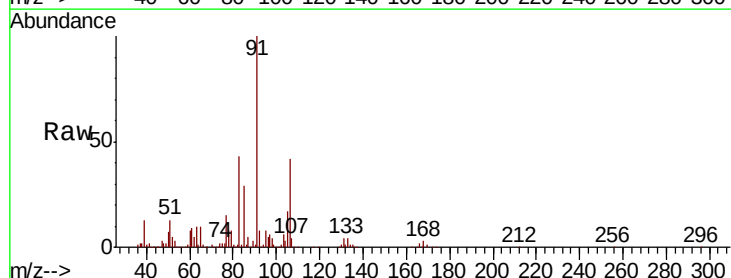
Manual Integrations
APPROVED

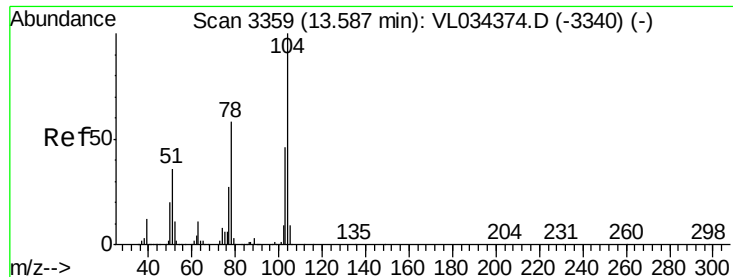
apatel
12/2/2019 10:04:37 AM



#60
o-Xylene
Concen: 9.461 ppbv
RT: 13.75 min Scan# 3410
Delta R.T. -0.00 min
Lab File: VL034419.D
Acq: 25 Nov 2019 23:35

Tgt Ion: 91 Resp: 2404805
Ion Ratio Lower Upper
91 100
106 42.3 21.3 64.0





#61

Stvrene

Concen: 9.641 ppbv

RT: 13.58 min Scan# 3358

Delta R.T. -0.00 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

Instrument :

MSVOA_L

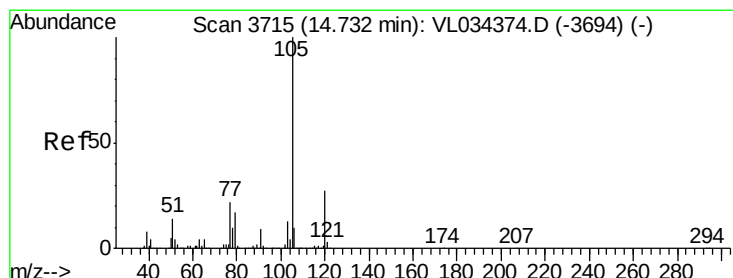
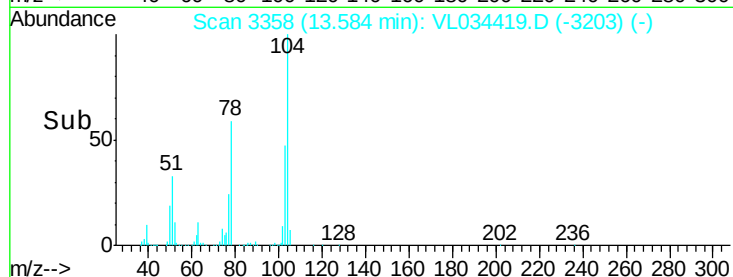
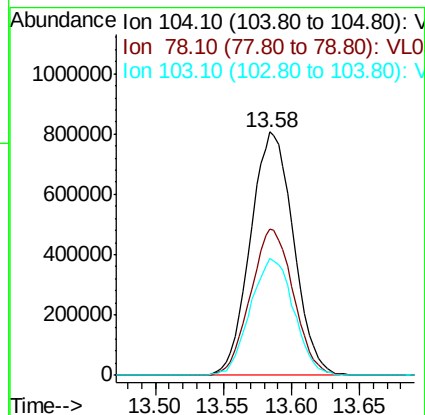
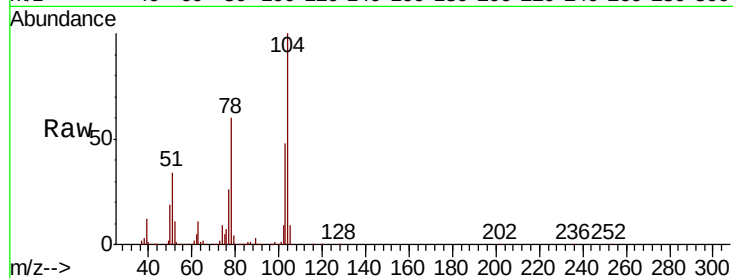
ClientSampleId :

VSTDCCC010EC

Tot Ion:	104	Resp:	1767131
Ion	Ratio	Lower	Upper
104	100		
78	59.9	47.6	71.4
103	48.5	38.6	57.8

Manual Integrations
APPROVED

apatel
12/2/2019 10:04:37 AM



#62

Isopropylbenzene

Concen: 9.311 ppbv

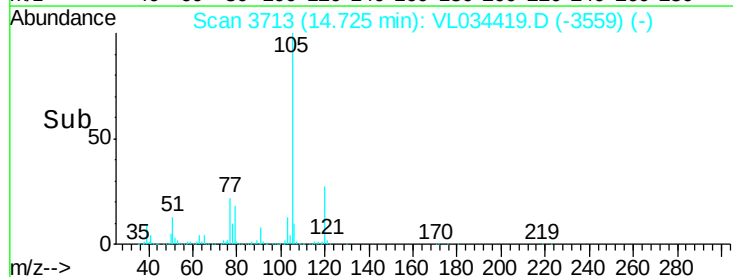
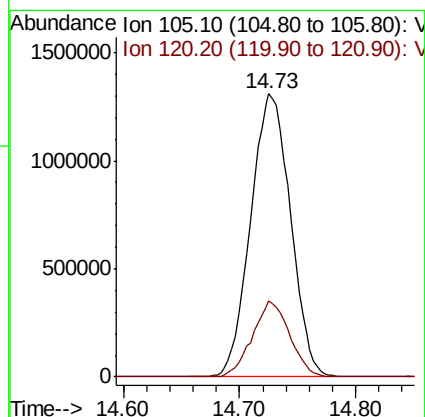
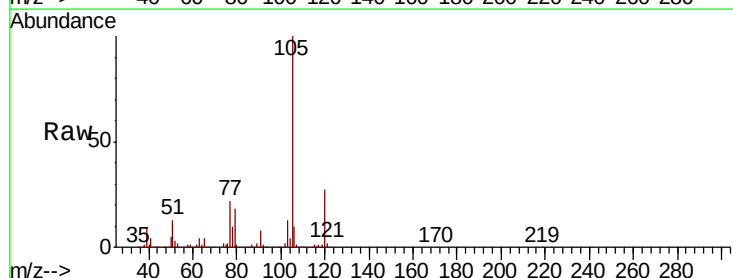
RT: 14.73 min Scan# 3713

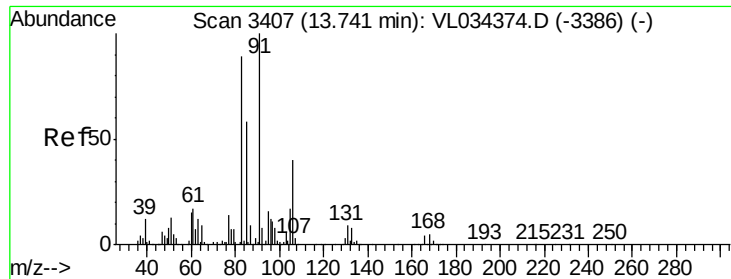
Delta R.T. -0.01 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

Tgt Ion:	105	Resp:	3130257
Ion	Ratio	Lower	Upper
105	100		
120	25.1	20.2	30.4





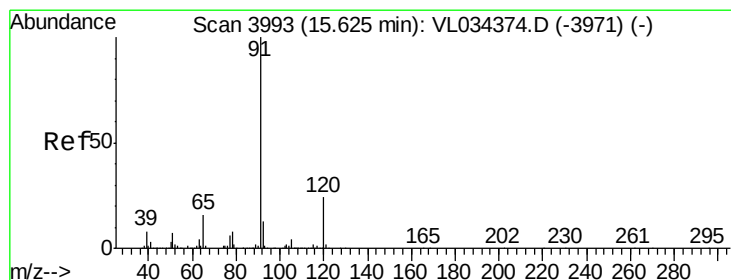
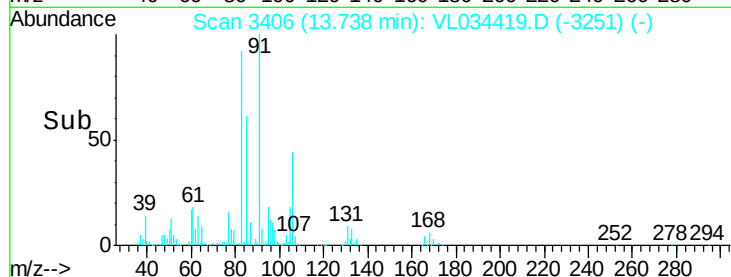
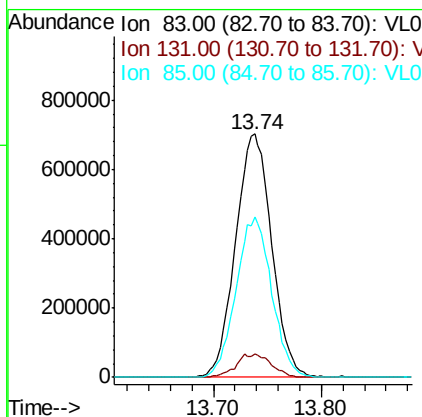
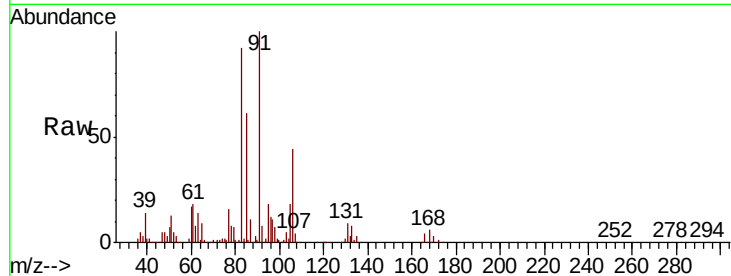
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.593 ppbv
 RT: 13.74 min Scan# 3406
 Delta R.T. -0.00 min
 Lab File: VL034419.D
 Acq: 25 Nov 2019 23:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	83	Resp	1641913
Ion Ratio	100	Lower	Upper
83	100		
131	9.4	4.9	14.7
85	64.8	32.6	97.8

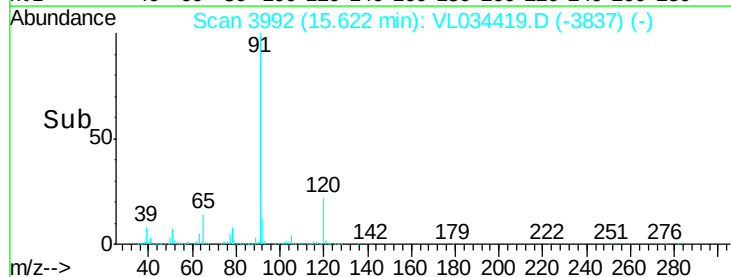
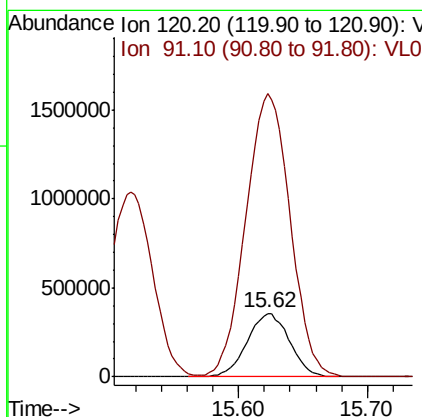
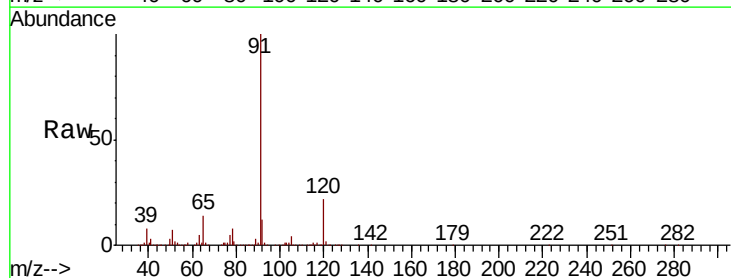
Manual Integrations
 APPROVED

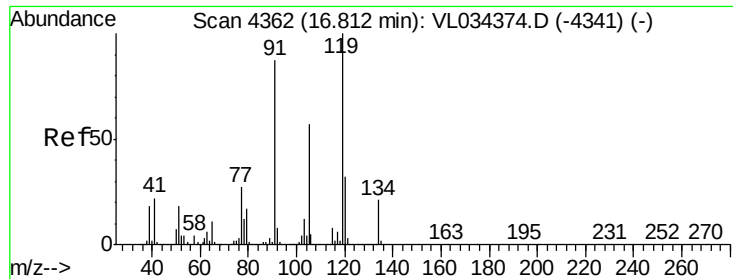
apatel
 12/2/2019 10:04:37 AM



#64
 n-propylbenzene
 Concen: 9.347 ppbv
 RT: 15.62 min Scan# 3992
 Delta R.T. -0.00 min
 Lab File: VL034419.D
 Acq: 25 Nov 2019 23:35

Tgt Ion	120	Resp	816018
Ion Ratio	100	Lower	Upper
120	100		
91	468.3	370.9	556.3





#65

tert-Butylbenzene

Concen: 9.118 ppbv

RT: 16.81 min Scan# 4361

Delta R.T. -0.00 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 2753245

Ion Ratio Lower Upper

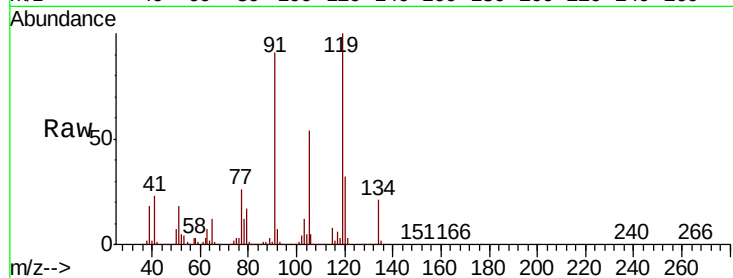
119 100

91 89.7 71.6 107.4

134 19.4 15.9 23.9

Manual Integrations
APPROVED

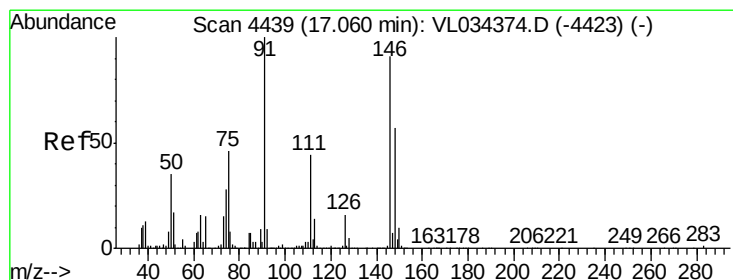
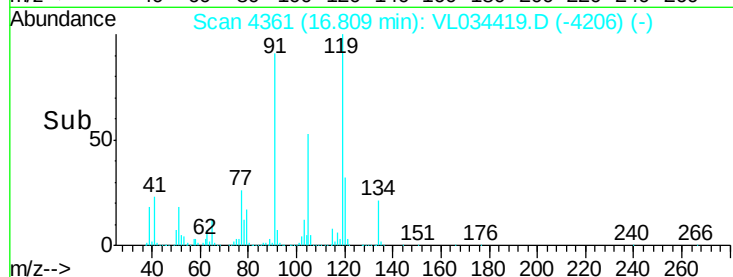
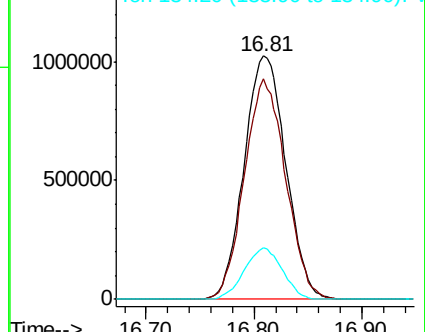
apatel
12/2/2019 10:04:37 AM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 10.888 ppbv

RT: 17.06 min Scan# 4439

Delta R.T. 0.00 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

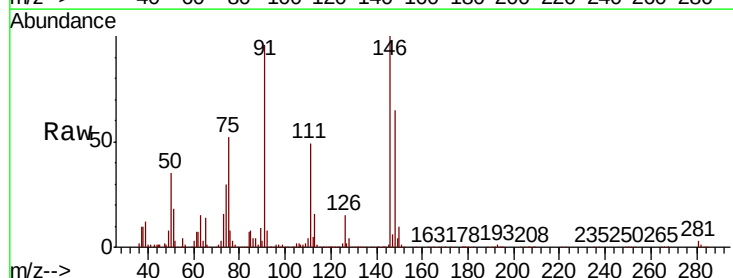
Tgt Ion: 91 Resp: 1264816

Ion Ratio Lower Upper

91 100

126 15.8 12.9 19.3

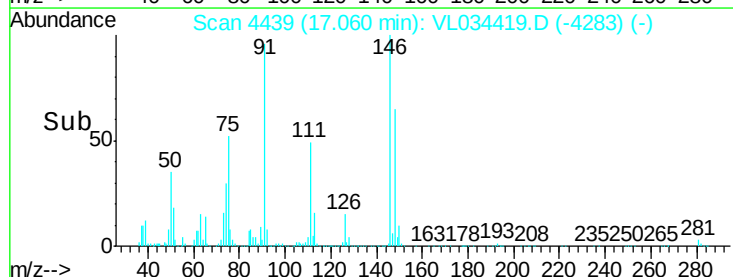
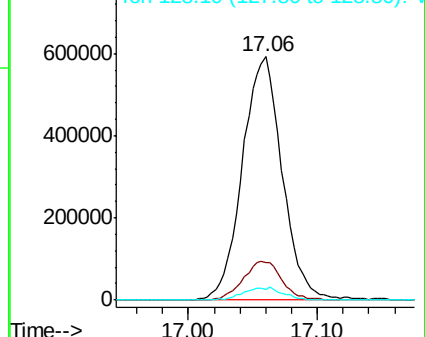
128 5.2 4.3 6.5

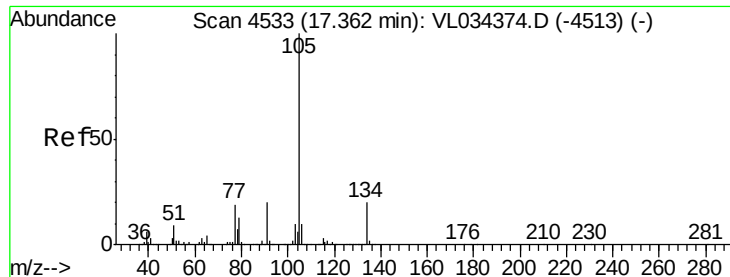


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.037 ppbv

RT: 17.36 min Scan# 4532

Delta R.T. -0.00 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 3817253

Ion Ratio Lower Upper

105 100

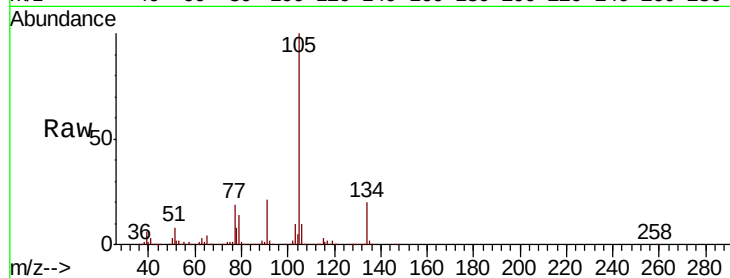
134 18.7 15.0 22.6

Manual Integrations

APPROVED

apatel

12/2/2019 10:04:37 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.36

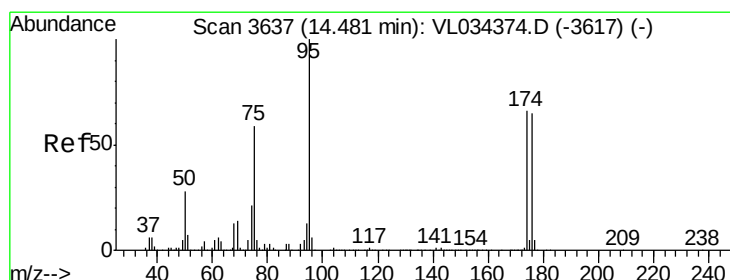
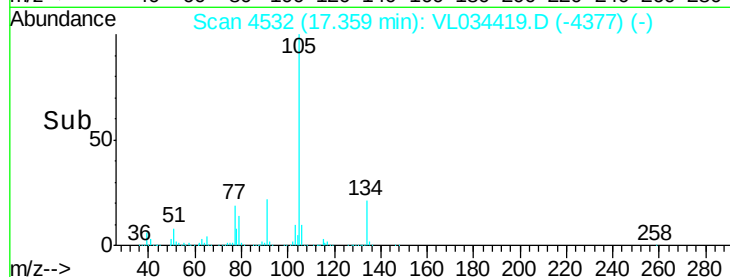
1500000

1000000

500000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.658 ppbv

RT: 14.48 min Scan# 3636

Delta R.T. -0.00 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

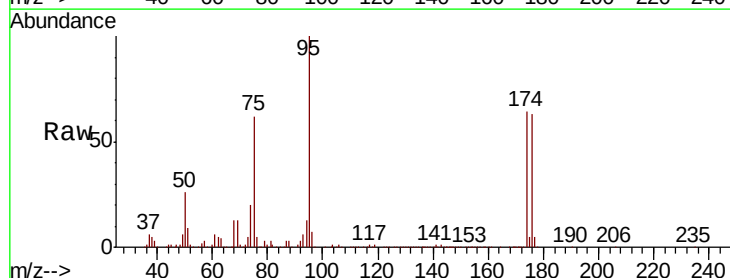
Tgt Ion: 95 Resp: 1557080

Ion Ratio Lower Upper

95 100

174 66.5 52.2 78.2

175 4.8 3.8 5.8



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

14.48

800000

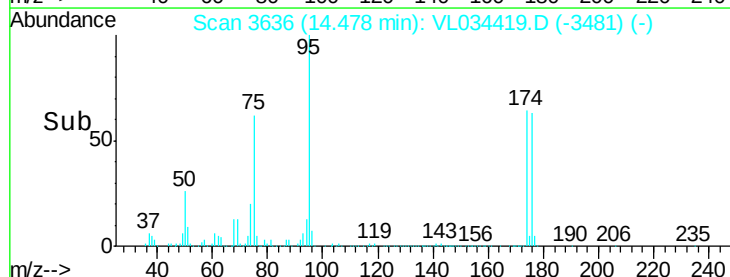
600000

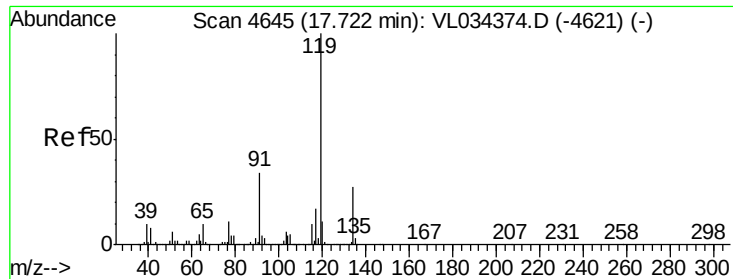
400000

200000

0

Time-->





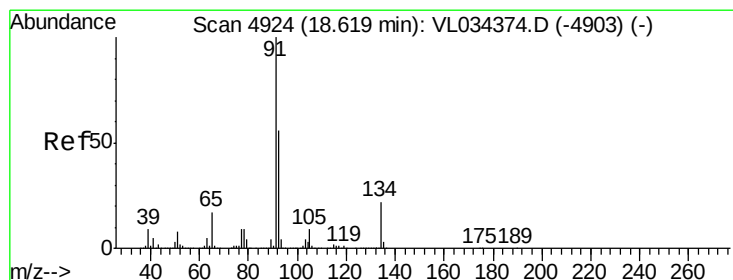
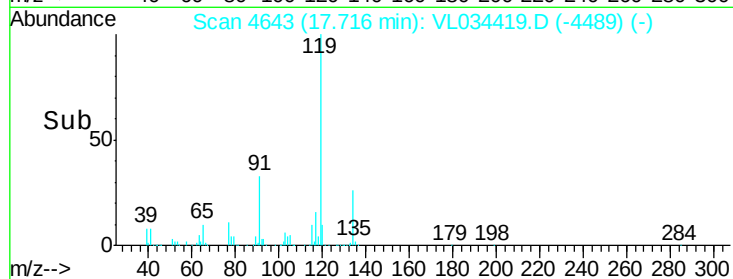
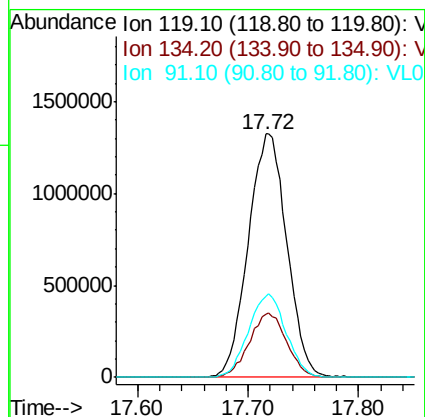
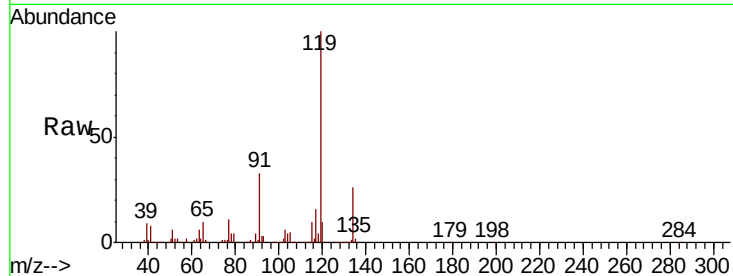
#69
 p-Isopropyltoluene
 Concen: 9.152 ppbv
 RT: 17.72 min Scan# 4643
 Delta R.T. -0.01 min
 Lab File: VL034419.D
 Acq: 25 Nov 2019 23:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.6	31.0
91	33.5	26.3	39.5

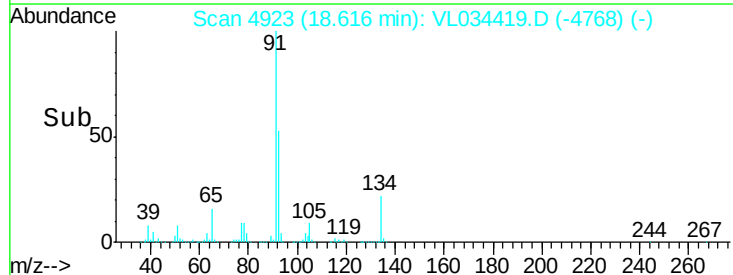
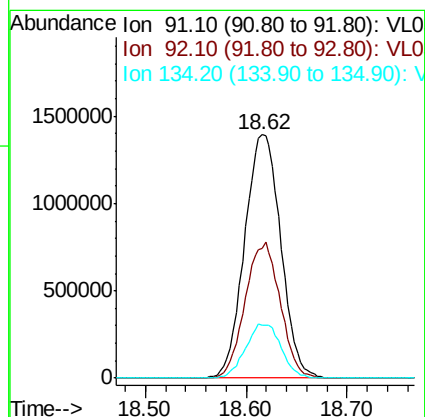
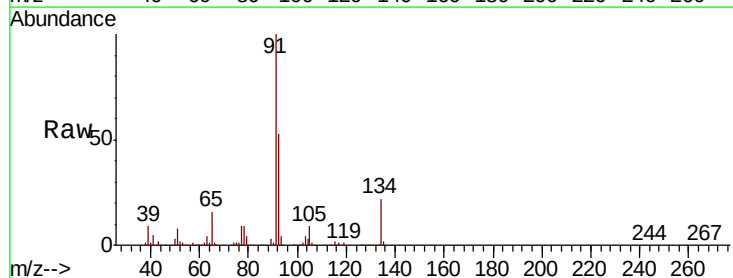
Manual Integrations
 APPROVED

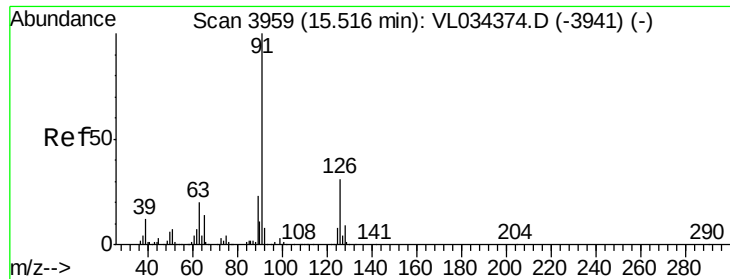
apatel
 12/2/2019 10:04:37 AM



#70
 n-Butylbenzene
 Concen: 9.175 ppbv
 RT: 18.62 min Scan# 4923
 Delta R.T. -0.00 min
 Lab File: VL034419.D
 Acq: 25 Nov 2019 23:35

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.2	43.8	65.6
134	21.9	17.9	26.9





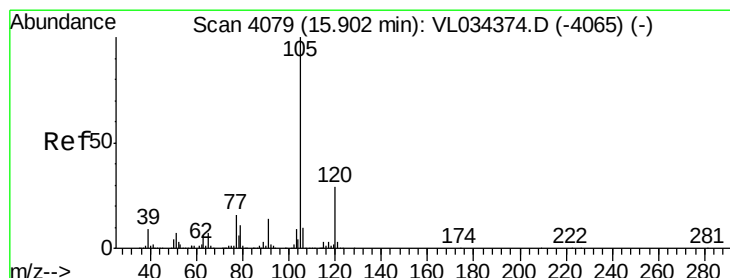
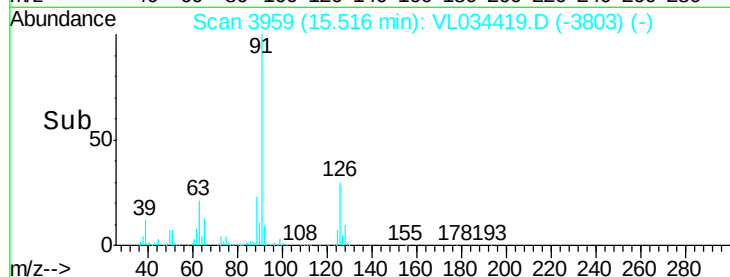
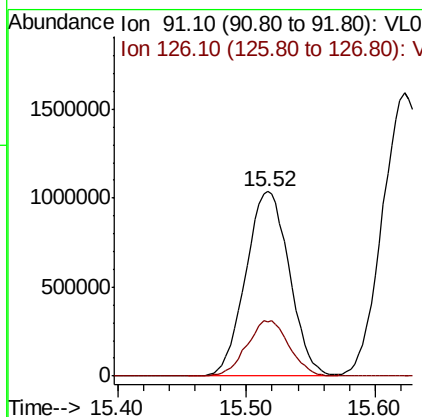
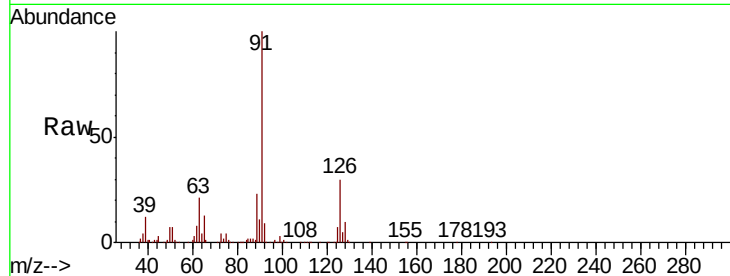
#71
2-Chlorotoluene
Concen: 9.144 ppbv
RT: 15.52 min Scan# 3959
Delta R.T. 0.00 min
Lab File: VL034419.D
Acq: 25 Nov 2019 23:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 2451032
Ion Ratio Lower Upper
91 100
126 29.2 11.8 47.4

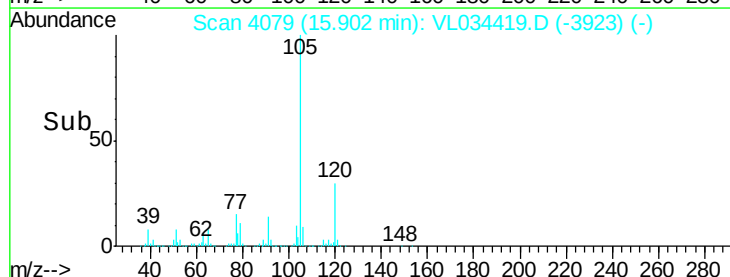
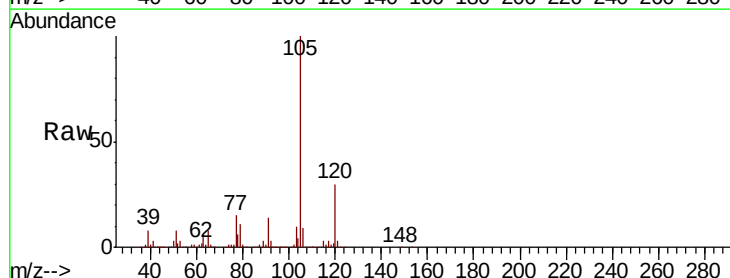
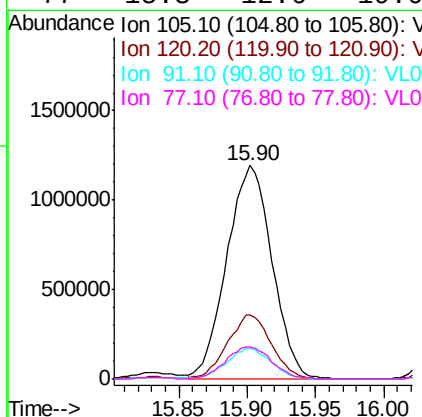
Manual Integrations
APPROVED

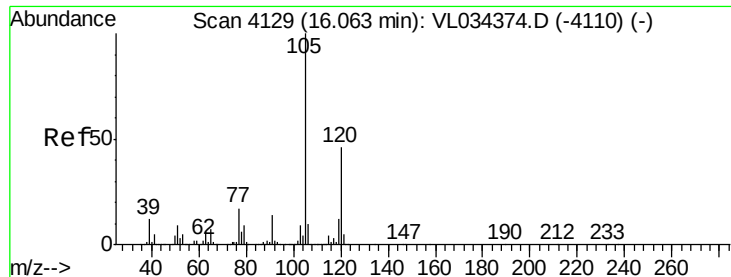
apatel
12/2/2019 10:04:37 AM



#72
4-Ethyltoluene
Concen: 9.314 ppbv
RT: 15.90 min Scan# 4079
Delta R.T. 0.00 min
Lab File: VL034419.D
Acq: 25 Nov 2019 23:35

Tgt Ion: 105 Resp: 2735447
Ion Ratio Lower Upper
105 100
120 29.4 23.5 35.3
91 14.3 11.4 17.0
77 15.3 12.6 19.0





#73

1,3,5-Trimethylbenzene

Concen: 9.122 ppbv

RT: 16.06 min Scan# 4127

Delta R.T. -0.01 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 2622528

Ion Ratio Lower Upper

105 100

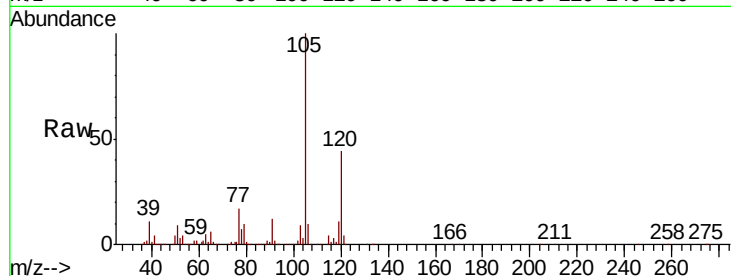
120 44.5 37.1 55.7

Manual Integrations

APPROVED

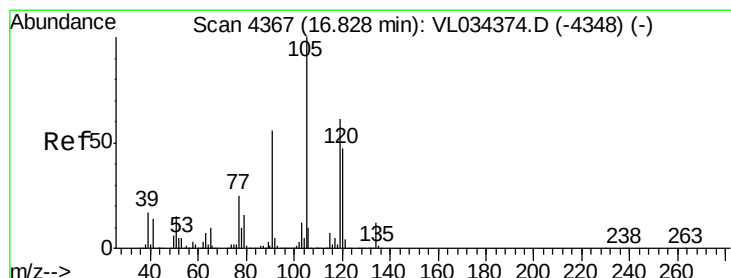
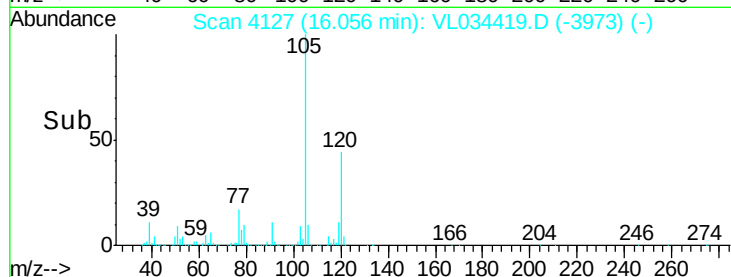
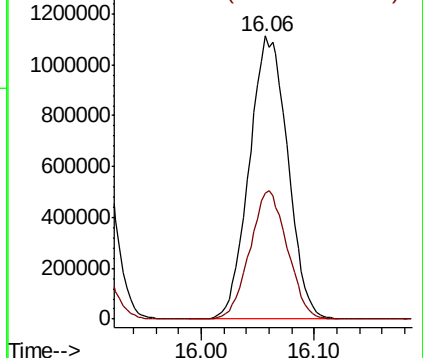
apatel

12/2/2019 10:04:37 AM



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: 8.877 ppbv

RT: 16.83 min Scan# 4367

Delta R.T. 0.00 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

Tgt Ion:105 Resp: 2710992

Ion Ratio Lower Upper

105 100

120 46.9 37.4 56.0

91 47.0 46.3 69.5

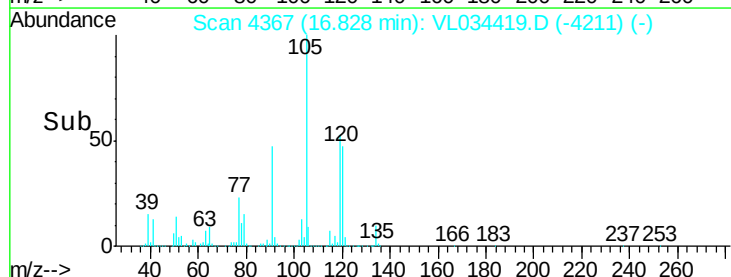
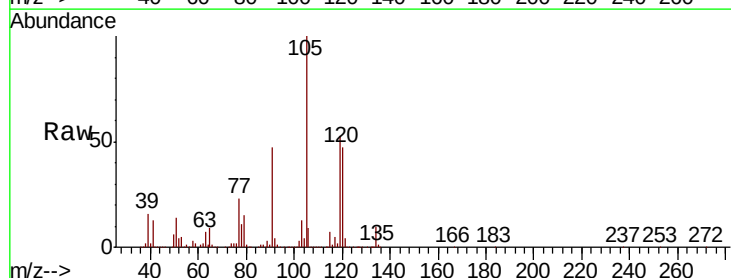
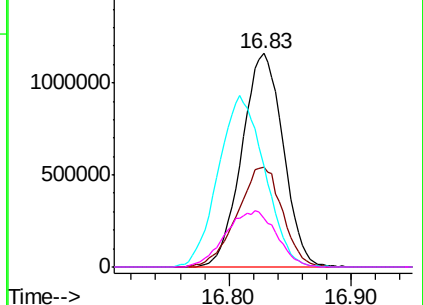
77 22.8 20.6 30.8

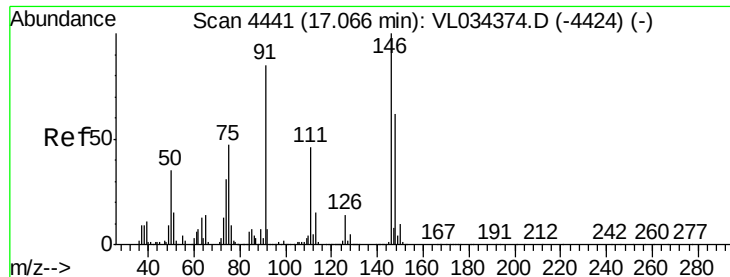
Abundance Ion 105.10 (104.80 to 105.80): V

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





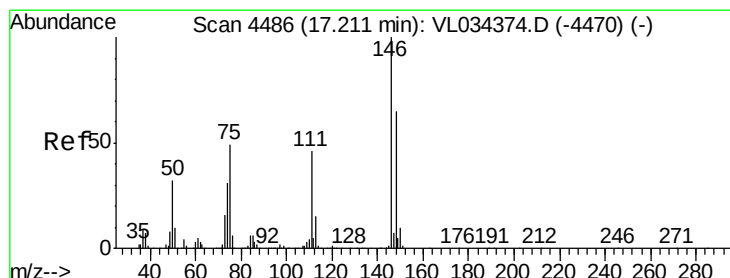
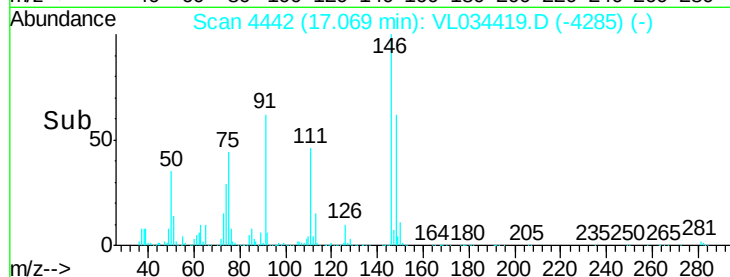
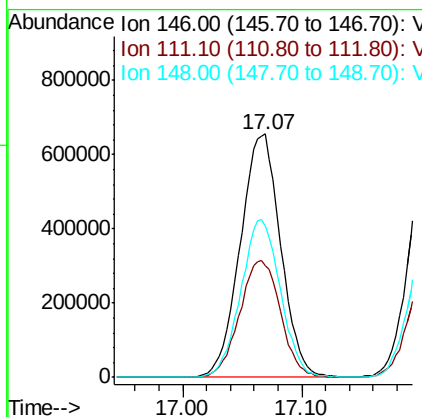
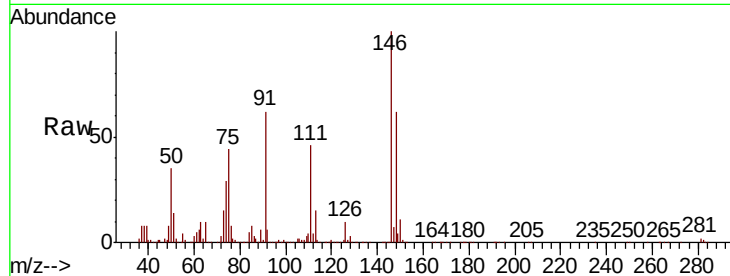
#75
 1,3-Dichlorobenzene
 Concen: 8.773 ppbv
 RT: 17.07 min Scan# 4442
 Delta R.T. 0.00 min
 Lab File: VL034419.D
 Acq: 25 Nov 2019 23:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.8	24.4	73.4
148	63.7	32.4	97.0

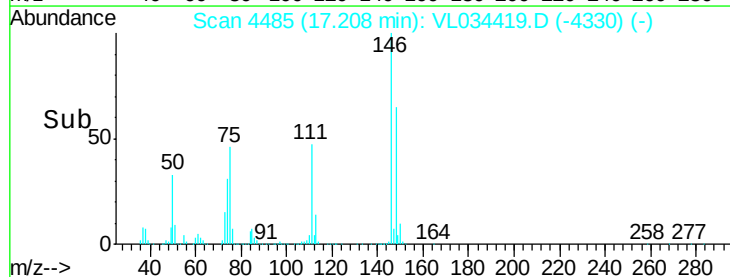
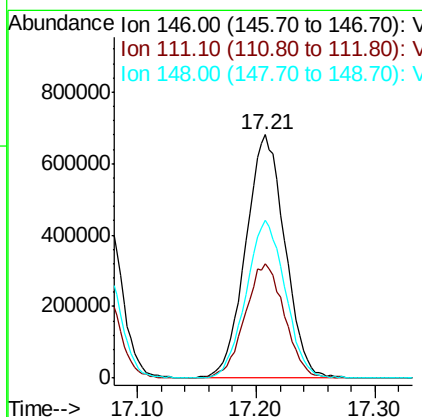
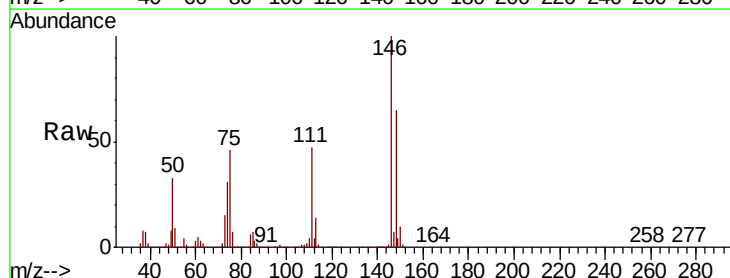
Manual Integrations
 APPROVED

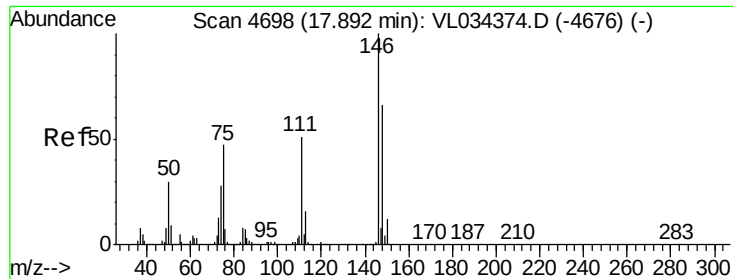
apatel
 12/2/2019 10:04:37 AM



#76
 1,4-Dichlorobenzene
 Concen: 9.032 ppbv
 RT: 17.21 min Scan# 4485
 Delta R.T. -0.00 min
 Lab File: VL034419.D
 Acq: 25 Nov 2019 23:35

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.9	24.1	72.3
148	64.8	32.9	98.6





#77

1,2-Dichlorobenzene

Concen: 8.877 ppbv

RT: 17.89 min Scan# 4696

Delta R.T. -0.01 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1505050

Ion Ratio Lower Upper

146 100

111 49.5 25.0 75.0

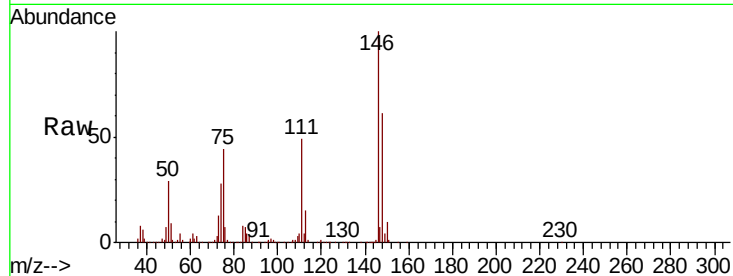
148 62.9 32.7 98.1

Manual Integrations

APPROVED

apatel

12/2/2019 10:04:37 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

800000

600000

400000

200000

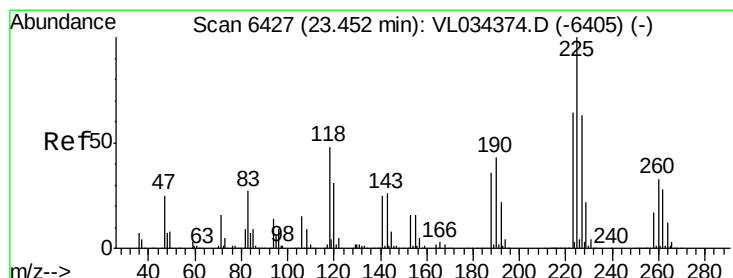
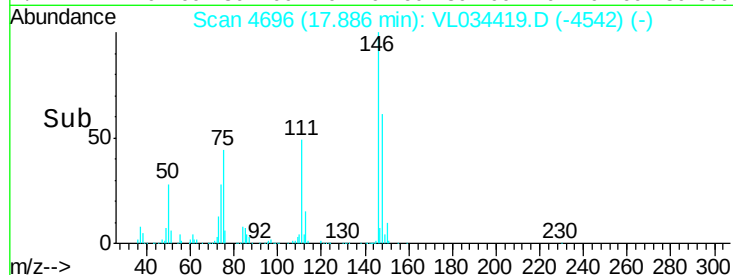
0

17.89

17.80

17.90

Time-->



#78

Hexachloro-1,3-Butadiene

Concen: 10.807 ppbv

RT: 23.45 min Scan# 6426

Delta R.T. -0.00 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

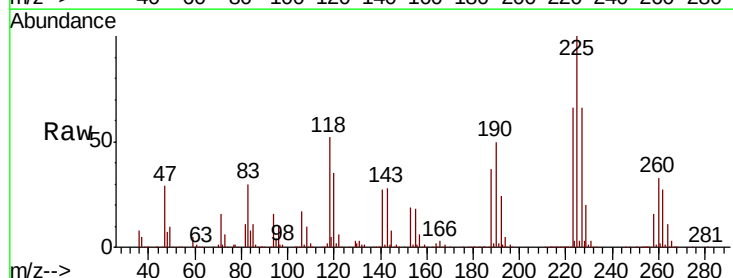
Tgt Ion:225 Resp: 1574283

Ion Ratio Lower Upper

225 100

223 63.5 50.2 75.2

227 65.3 51.5 77.3



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

800000

600000

400000

200000

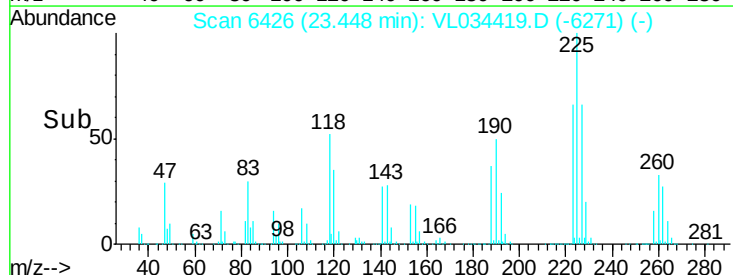
0

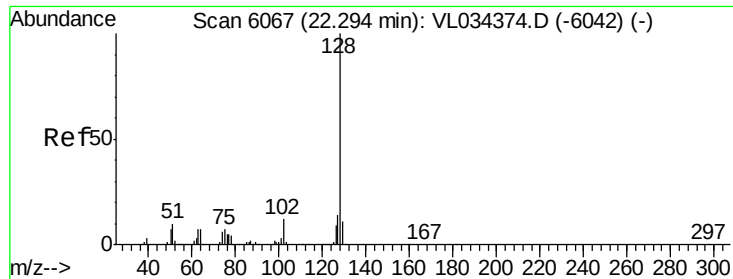
23.45

23.40

23.50

Time-->





#79

Naphthalene

Concen: 11.064 ppbv

RT: 22.29 min Scan# 6065

Delta R.T. -0.01 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

Instrument :

MSVOA_L

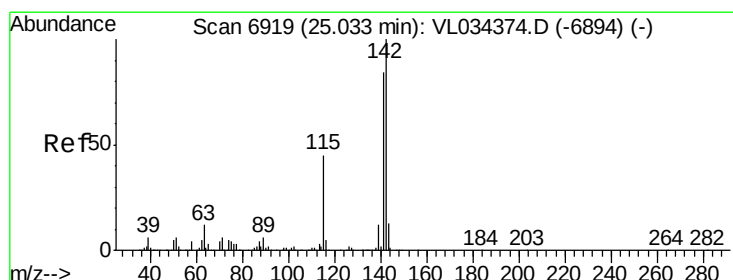
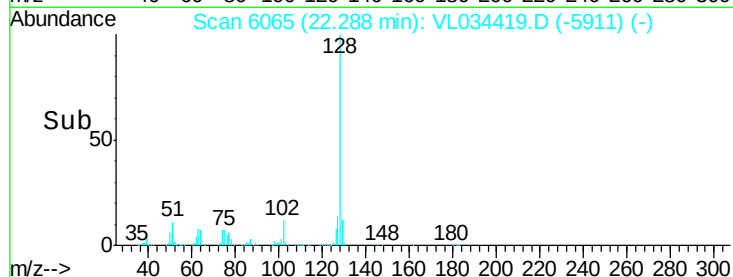
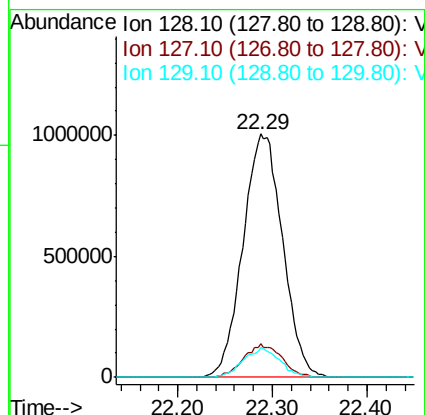
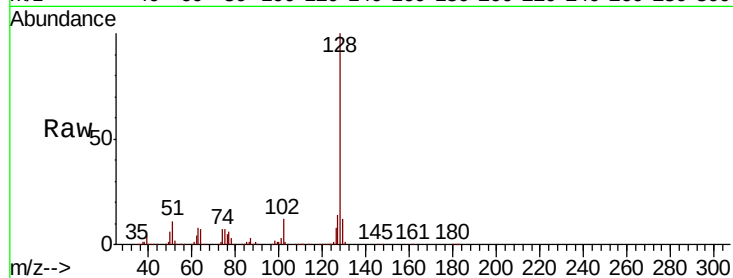
ClientSampleId :

VSTDCCC010EC

Tot Ion:	128	Resp:	2929131
Ion	Ratio	Lower	Upper
128	100		
127	13.7	11.0	16.6
129	12.0	8.9	13.3

Manual Integrations
APPROVED

apatel
12/2/2019 10:04:37 AM



#80

Naphthalene, 2-methyl-

Concen: 12.135 ppbv

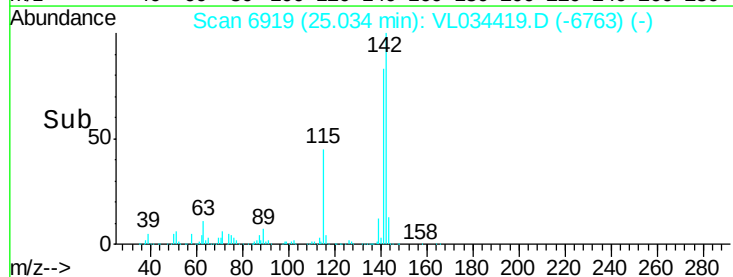
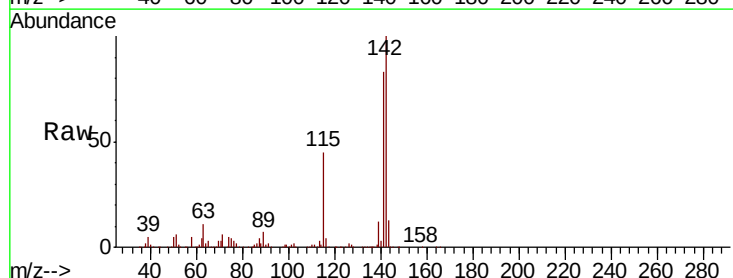
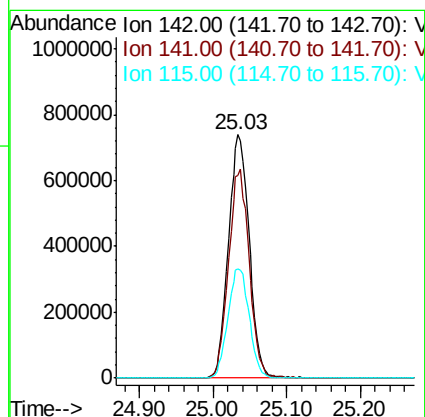
RT: 25.03 min Scan# 6919

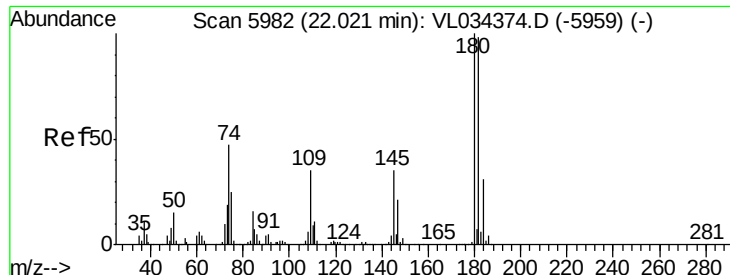
Delta R.T. 0.00 min

Lab File: VL034419.D

Acq: 25 Nov 2019 23:35

Tgt Ion:	142	Resp:	1450624
Ion	Ratio	Lower	Upper
142	100		
141	85.2	67.1	100.7
115	45.9	36.6	54.8





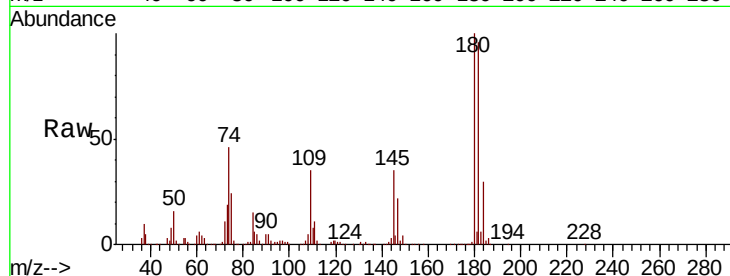
#81
 1,2,4-Trichlorobenzene
 Concen: 10.488 ppbv
 RT: 22.01 min Scan# 5980
 Delta R.T. -0.01 min
 Lab File: VL034419.D
 Acq: 25 Nov 2019 23:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.7	76.8	115.2
184	30.8	24.9	37.3

Manual Integrations
 APPROVED

apatel
 12/2/2019 10:04:37 AM



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

