

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052819\
 Data File : VL033809.D
 Acq On : 28 May 2019 17:42
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

apatel
 5/29/2019 12:40:28 PM

Quant Time: May 29 05:25:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 1
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	945433	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2487769	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2537357m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1903218	9.25	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.08	85	1473595	7.396	ppbv 99
3) Chlorodifluoromethane	3.01	51	1075358	9.930	ppbv 98
4) Chloromethane	3.17	50	667815	10.782	ppbv 100
5) Vinyl Chloride	3.29	62	652083	10.335	ppbv 97
6) Bromomethane	3.51	94	408741	10.617	ppbv 95
7) Chloroethane	3.60	64	238973	10.657	ppbv 98
8) Dichlorotetrafluoroethane	3.22	85	1588253	9.887	ppbv 96
9) Propene	3.03	41	523264	11.360	ppbv 100
10) Heptane	8.24	43	1326722	10.171	ppbv 99
11) Trichlorofluoromethane	4.00	101	1727716	9.085	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1189144	8.955	ppbv 96
13) Ethanol	3.65	45	111255	7.473	ppbv 99
14) Bromoethene	3.78	108	539683	11.055	ppbv 97
15) Acetone	3.90	43	1124311	8.571	ppbv 99
16) 1,3-Butadiene	3.36	39	570756	10.926	ppbv 100
17) tert-Butyl alcohol	4.35	59	1155671	10.895	ppbv 100
18) 1,1-Dichloroethene	4.35	96	546971	9.759	ppbv 97
19) Isopropyl Alcohol	4.02	45	874796	10.343	ppbv 99
20) Methylene Chloride	4.41	84	459414	9.096	ppbv 97
21) Allyl Chloride	4.47	41	799989	9.778	ppbv 99
22) trans-1,2-Dichloroethene	4.96	96	546486	9.512	ppbv 92
23) Vinyl Acetate	5.15	43	1906287	11.022	ppbv 98
24) 1,1-Dichloroethane	5.09	63	1301990	9.903	ppbv 98
25) Ethyl Acetate	5.77	43	2223054	9.647	ppbv 99
26) Hexane	5.78	57	999522	10.090	ppbv 98
27) Carbon Disulfide	4.62	76	1327609	9.768	ppbv 99
28) Methyl tert-Butyl Ether	5.11	73	1784077	11.047	ppbv 100
29) Chloroform	5.85	83	1669286	9.148	ppbv 99
30) Cyclohexane	7.25	84	895474	10.752	ppbv 96
31) cis-1,2-Dichloroethene	5.64	61	1022891	10.414	ppbv 94
32) 1,1,1-Trichloroethane	6.62	97	1678760	9.214	ppbv 99
34) 2-Butanone	5.33	43	1500670	9.732	ppbv 98
35) Carbon Tetrachloride	7.13	117	1731370	8.688	ppbv 99
36) Benzene	7.00	78	2151234	9.506	ppbv 97
37) 1,2-Dichloroethane	6.41	62	1202693	8.239	ppbv 98
38) Trichloroethene	7.96	130	890994	10.611	ppbv 97
39) 1,2-Dichloropropane	7.73	63	817034	9.684	ppbv 96
40) 1,4-Dioxane	7.95	88	354222	10.036	ppbv # 89
41) Tetrahydrofuran	6.15	42	859591	9.949	ppbv 97
42) Bromodichloromethane	7.91	83	1830961	9.162	ppbv 97
43) Methyl Methacrylate	8.13	69	872368	10.475	ppbv 96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052819\
 Data File : VL033809.D
 Acq On : 28 May 2019 17:42
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
 APPROVED

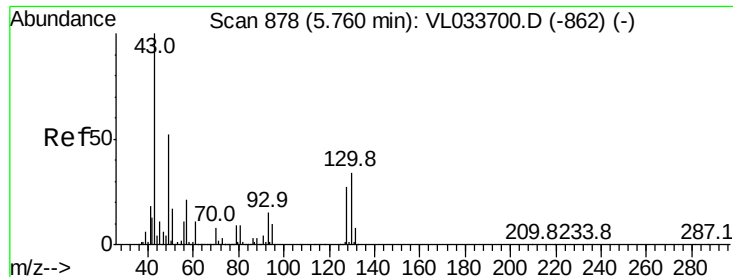
apatel
 5/29/2019 12:40:28 PM

Quant Time: May 29 05:25:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 1
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

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

44) 2,2,4-Trimethylpentane	7.99	57	3546574	9.273	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	1121197	10.619	ppbv	97
46) cis-1,3-Dichloropropene	8.83	75	1280969	10.361	ppbv	94
47) 1,1,2-Trichloroethane	9.61	97	898592	9.375	ppbv	99
48) Dibromochloromethane	10.44	129	1570297	9.455	ppbv	100
49) Bromoform	13.20	173	1430169	10.235	ppbv	99
50) 4-Methyl-2-Pentanone	8.86	43	2195358	9.256	ppbv	98
51) 2-Hexanone	10.26	43	1821069	9.838	ppbv #	99
52) Tetrachloroethene	11.37	164	826679	10.392	ppbv	97
53) Toluene	9.94	91	2546624	10.433	ppbv	100
54) 1,2-Dibromoethane	10.75	107	1398260	9.559	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.27	131	1062237	9.047	ppbv	98
57) Chlorobenzene	12.30	112	1908771	9.139	ppbv	97
58) Ethyl Benzene	12.86	91	3510540	10.448	ppbv	100
59) m/p-Xylene	13.15	91	5744567m	19.558	ppbv	
60) o-Xylene	13.85	91	2802437	9.465	ppbv	97
61) Styrene	13.68	104	2207321	11.073	ppbv	98
62) Isopropylbenzene	14.82	105	3807992	9.550	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	1944932	9.033	ppbv	99
64) n-propylbenzene	15.72	120	1002612	9.721	ppbv	98
65) tert-Butylbenzene	16.90	119	3447134	9.468	ppbv	98
66) Benzyl Chloride	17.15	91	1759715	10.148	ppbv	99
67) sec-Butylbenzene	17.45	105	4858593	9.535	ppbv	100
69) p-Isopropyltoluene	17.81	119	4140694	9.831	ppbv	99
70) n-Butylbenzene	18.71	91	4225252	9.355	ppbv	100
71) 2-Chlorotoluene	15.61	91	2861728	9.673	ppbv	98
72) 4-Ethyltoluene	15.99	105	3325773	9.824	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3179335	9.625	ppbv	98
74) 1,2,4-Trimethylbenzene	16.92	105	3310264	9.208	ppbv	96
75) 1,3-Dichlorobenzene	17.16	146	1974483	8.963	ppbv	99
76) 1,4-Dichlorobenzene	17.30	146	1934856	9.241	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	1920173	9.277	ppbv	99
78) Hexachloro-1,3-Butadiene	23.53	225	1360816	8.695	ppbv	99
79) Naphthalene	22.40	128	2715356	8.132	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1071897	8.449	ppbv	98
81) 1,2,4-Trichlorobenzene	22.13	180	1563810	7.998	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

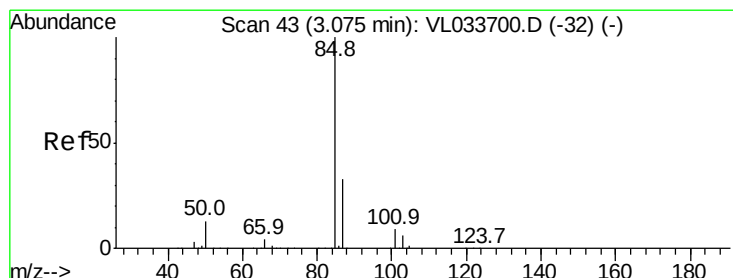
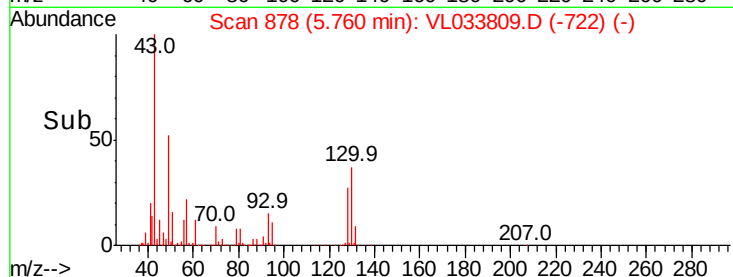
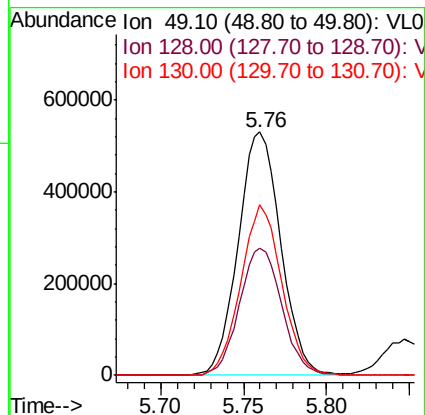
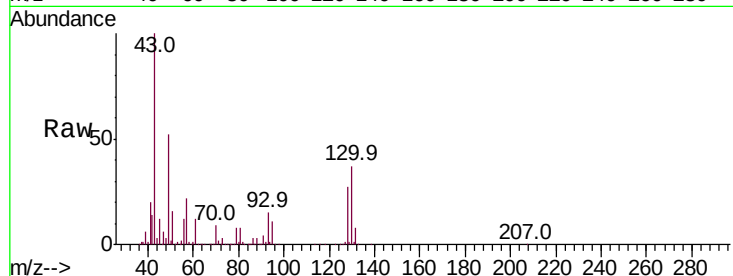
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
49	100		
128	52.5	25.2	75.6
130	67.7	32.5	97.5

Manual Integrations
APPROVED

apatel

5/29/2019 12:40:28 PM



#2

Dichlorodifluoromethane

Concen: 7.396 ppbv

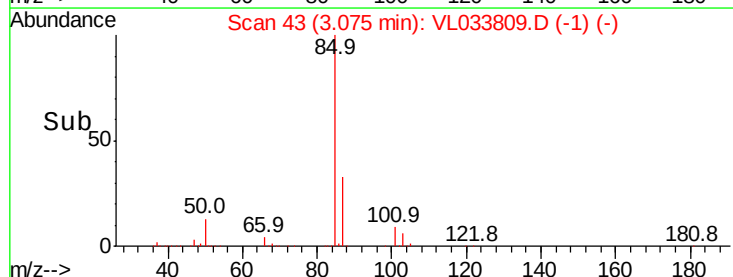
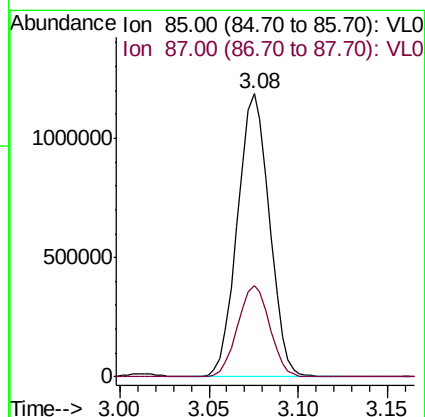
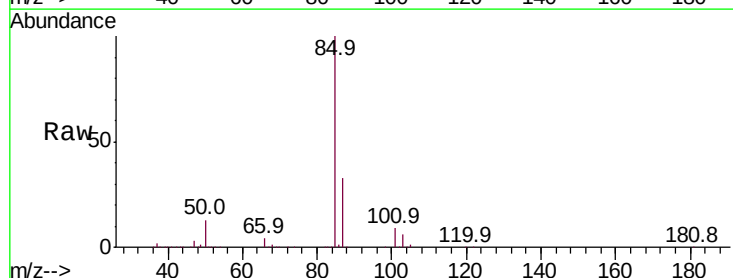
RT: 3.08 min Scan# 43

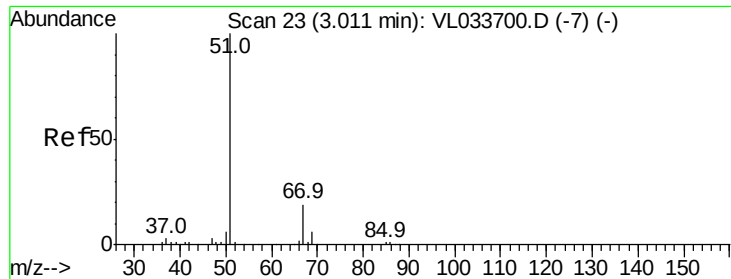
Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.5	26.3	39.5





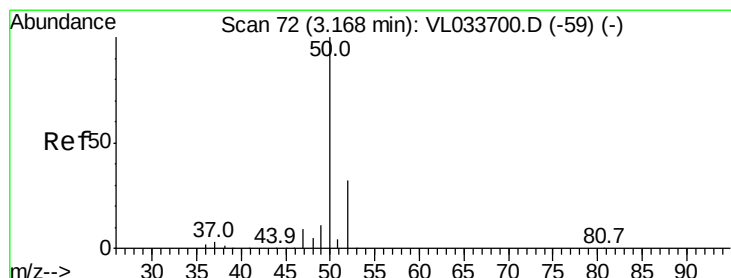
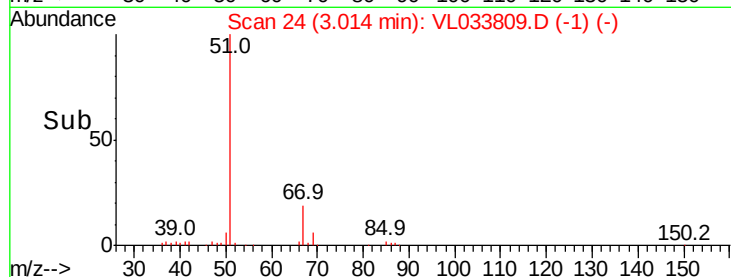
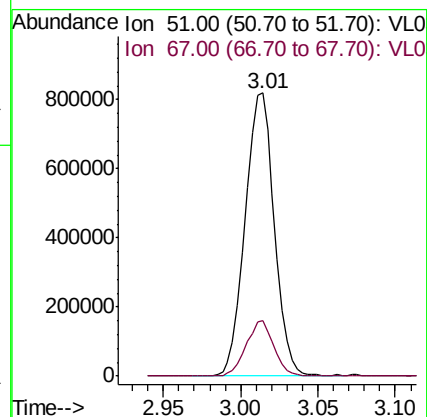
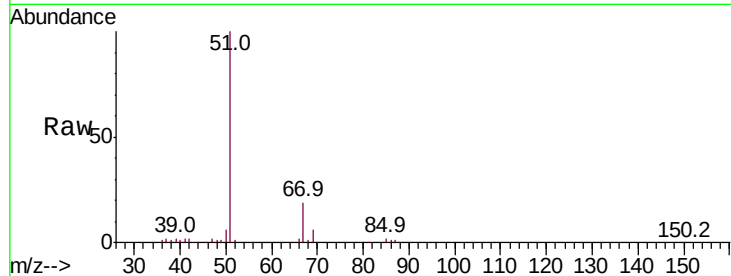
#3
 Chlorodifluoromethane
 Concen: 9.930 ppbv
 RT: 3.01 min Scan# 24
 Delta R.T. 0.00 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 51 Resp: 1075358
 Ion Ratio Lower Upper
 51 100
 67 18.6 15.6 23.4

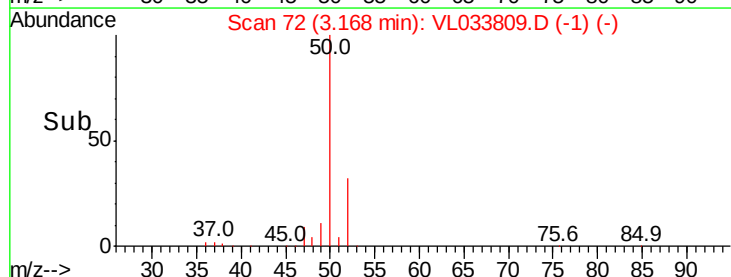
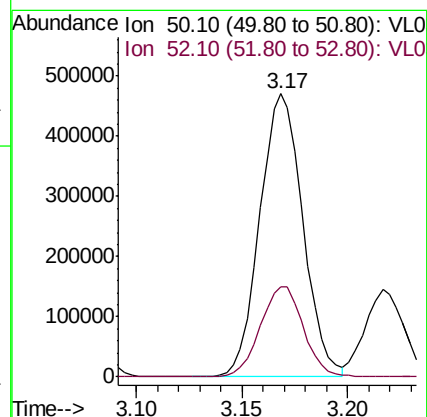
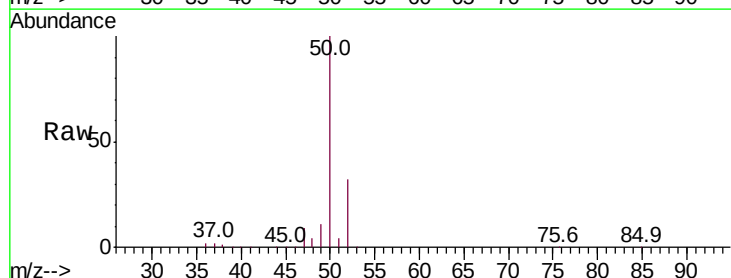
Manual Integrations
 APPROVED

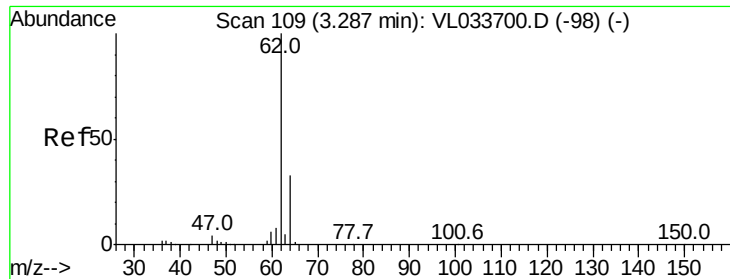
apatel
 5/29/2019 12:40:28 PM



#4
 Chloromethane
 Concen: 10.782 ppbv
 RT: 3.17 min Scan# 72
 Delta R.T. 0.00 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Tgt Ion: 50 Resp: 667815
 Ion Ratio Lower Upper
 50 100
 52 31.9 25.7 38.5





#5

Vinyl Chloride

Concen: 10.335 ppbv

RT: 3.29 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 652083

Ion Ratio Lower Upper

62 100

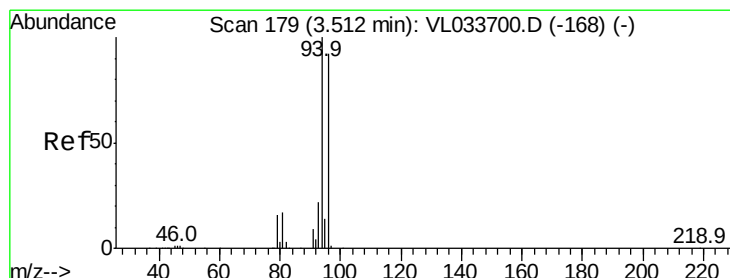
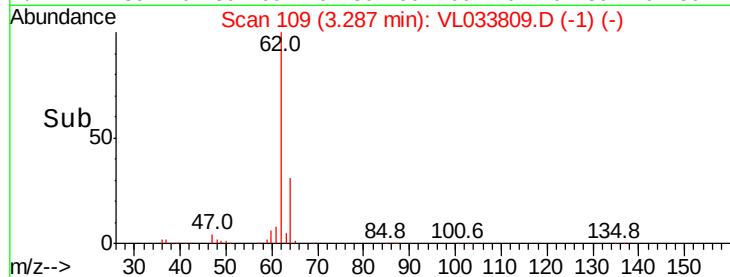
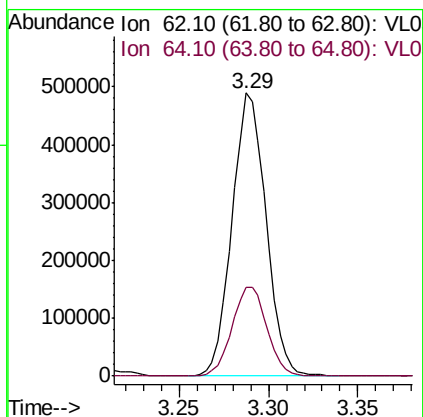
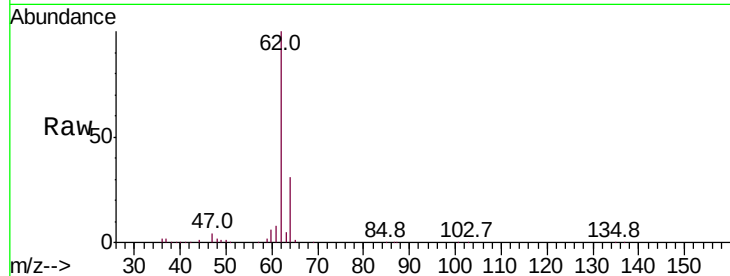
64 31.4 26.4 39.6

Manual Integrations

APPROVED

apatel

5/29/2019 12:40:28 PM



#6

Bromomethane

Concen: 10.617 ppbv

RT: 3.51 min Scan# 179

Delta R.T. 0.00 min

Lab File: VL033809.D

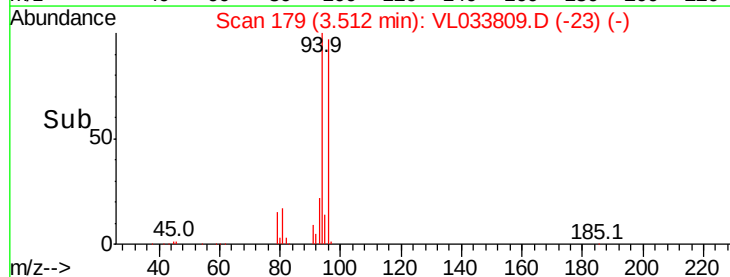
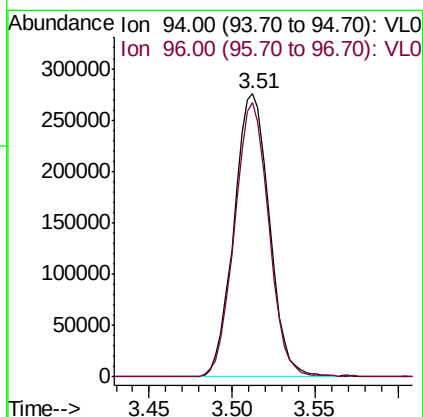
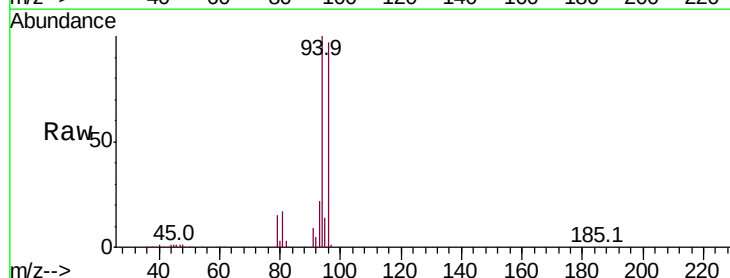
Acq: 28 May 2019 17:42

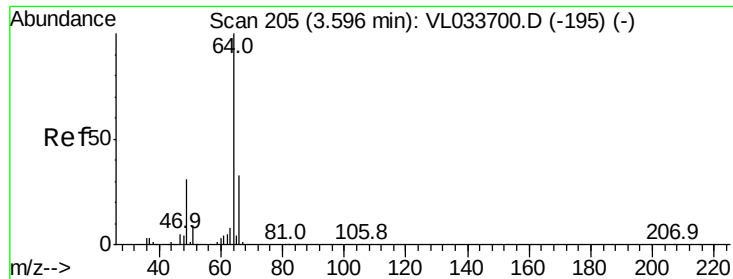
Tgt Ion: 94 Resp: 408741

Ion Ratio Lower Upper

94 100

96 96.9 73.6 110.4





#7

Chloroethane

Concen: 10.657 ppbv

RT: 3.60 min Scan# 206

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 238973

Ion Ratio Lower Upper

64 100

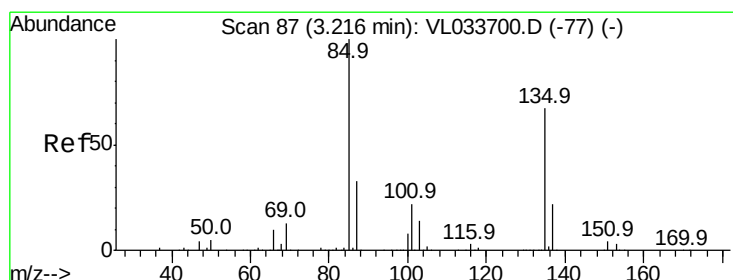
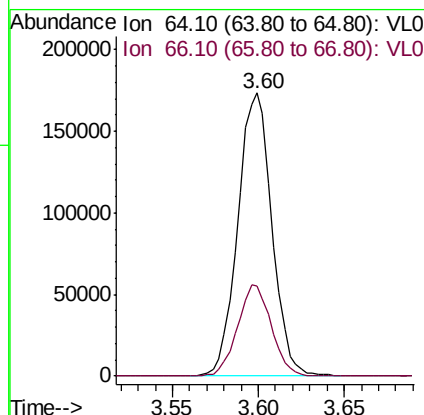
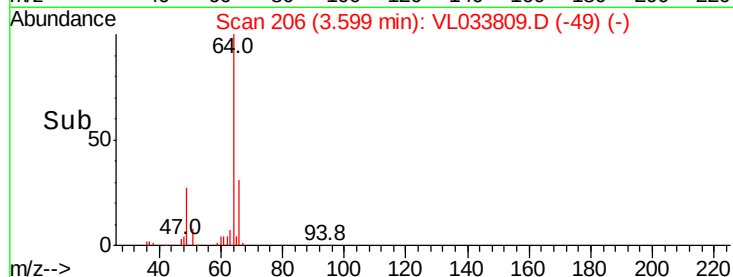
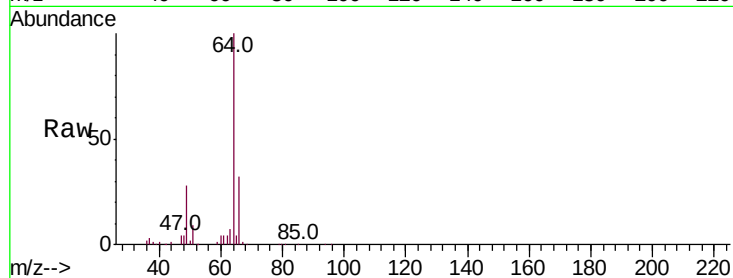
66 32.0 26.6 40.0

Manual Integrations

APPROVED

apatel

5/29/2019 12:40:28 PM



#8

Dichlorotetrafluoroethane

Concen: 9.887 ppbv

RT: 3.22 min Scan# 87

Delta R.T. 0.00 min

Lab File: VL033809.D

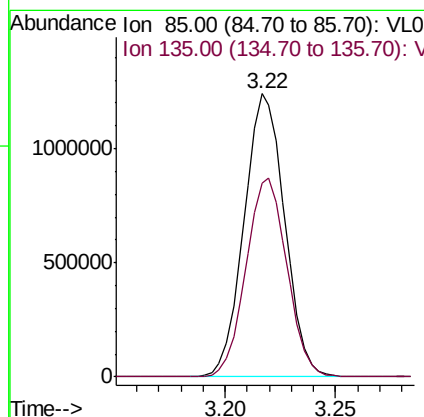
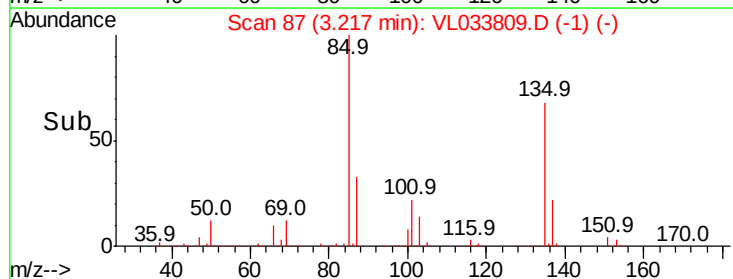
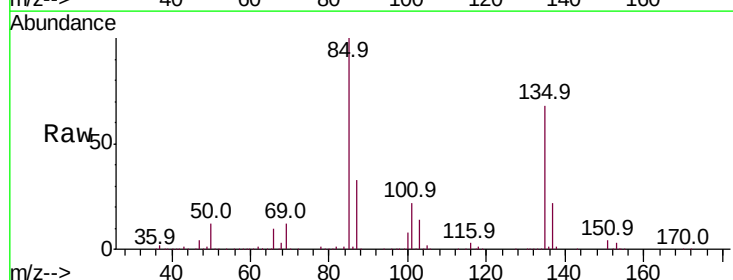
Acq: 28 May 2019 17:42

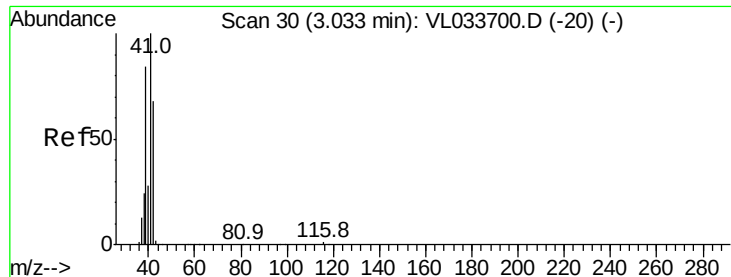
Tgt Ion: 85 Resp: 1588253

Ion Ratio Lower Upper

85 100

135 71.0 54.5 81.7





#9

Propene

Concen: 11.360 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 523264

Ion Ratio Lower Upper

41 100

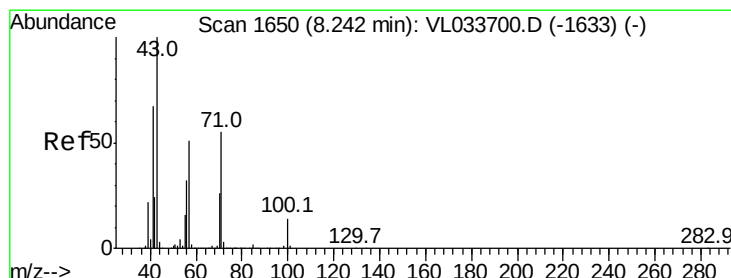
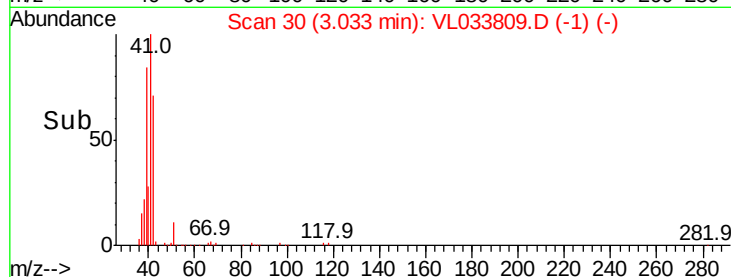
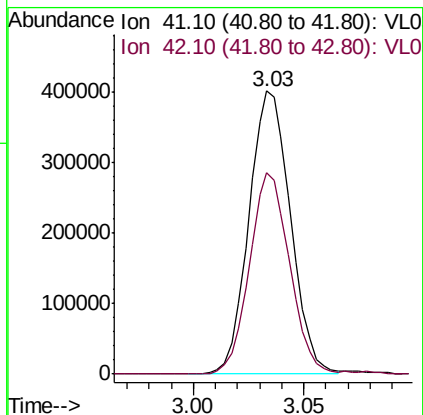
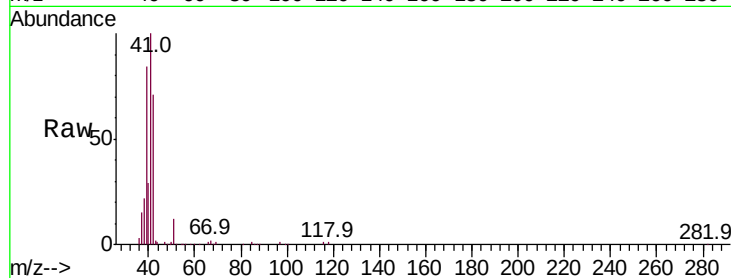
42 69.7 56.1 84.1

Manual Integrations

APPROVED

apatel

5/29/2019 12:40:28 PM



#10

Heptane

Concen: 10.171 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VL033809.D

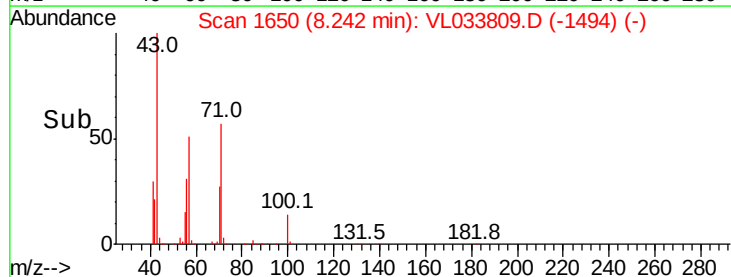
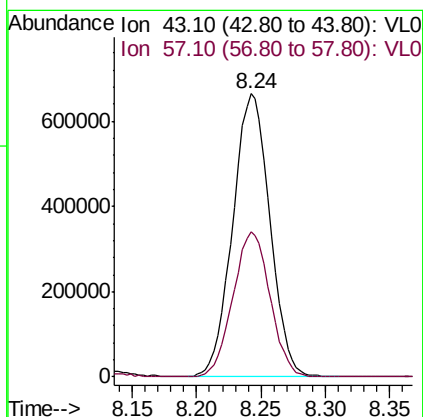
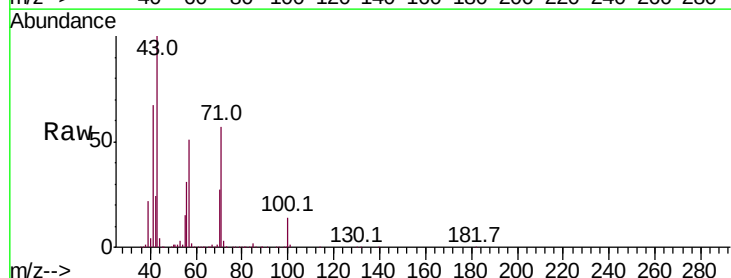
Acq: 28 May 2019 17:42

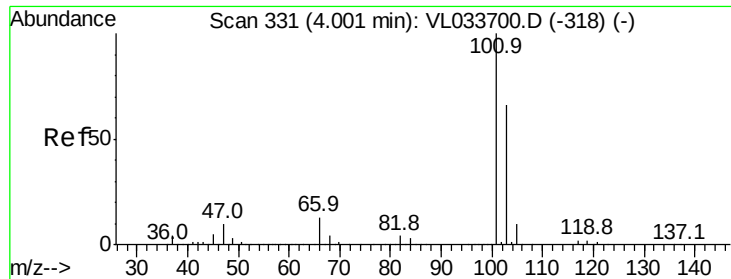
Tgt Ion: 43 Resp: 1326722

Ion Ratio Lower Upper

43 100

57 51.2 41.4 62.0





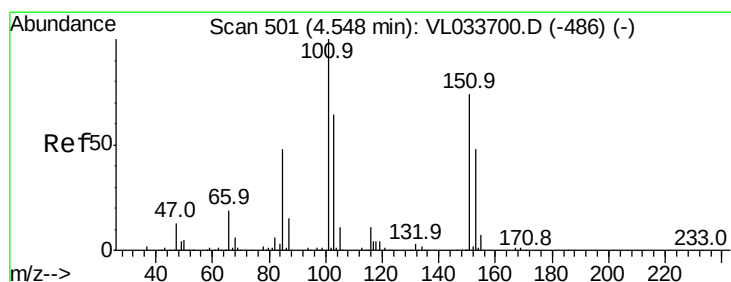
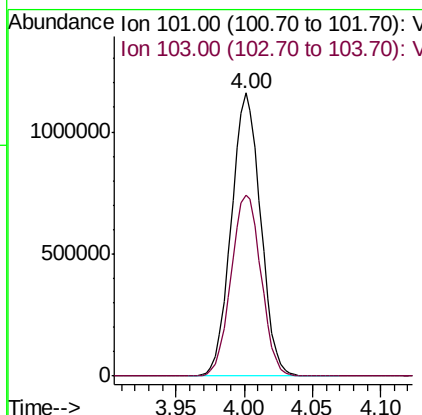
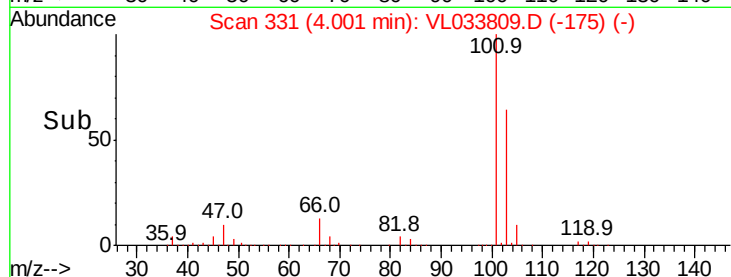
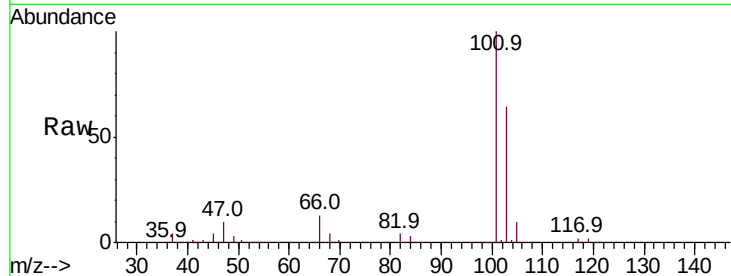
#11
 Trichlorofluoromethane
 Concen: 9.085 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. 0.00 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1727716
 Ion Ratio Lower Upper
 101 100
 103 63.7 52.6 78.8

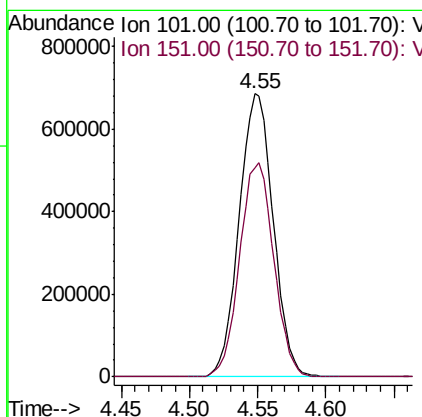
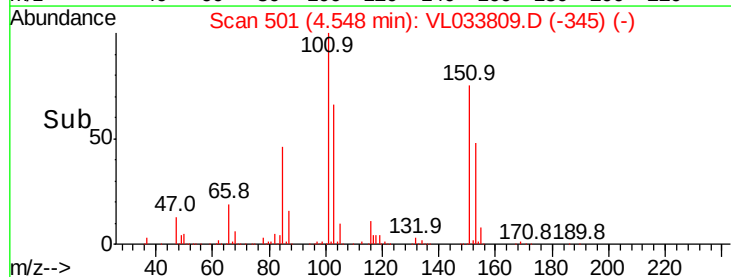
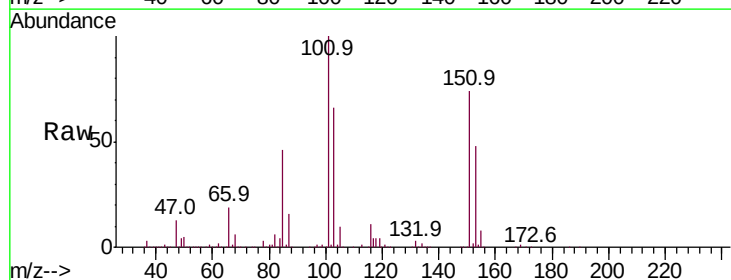
Manual Integrations
 APPROVED

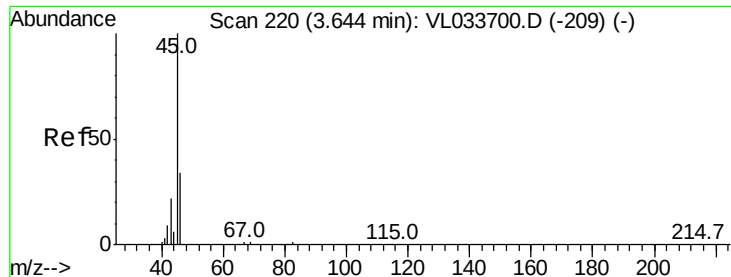
apatel
 5/29/2019 12:40:28 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.955 ppbv
 RT: 4.55 min Scan# 501
 Delta R.T. 0.00 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Tgt Ion:101 Resp: 1189144
 Ion Ratio Lower Upper
 101 100
 151 75.9 58.2 87.4





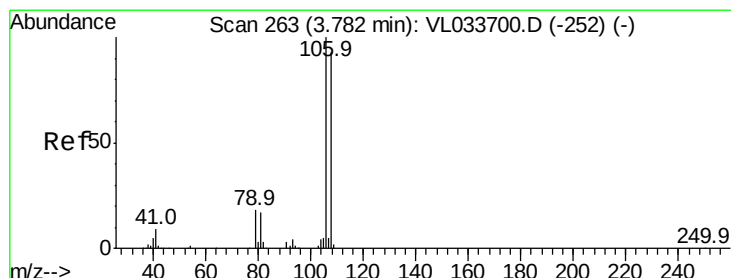
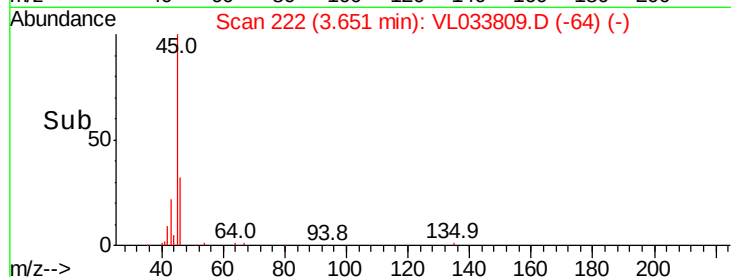
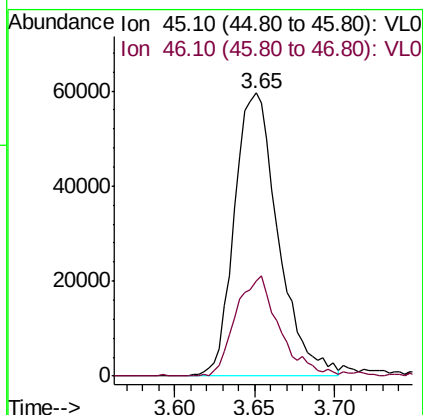
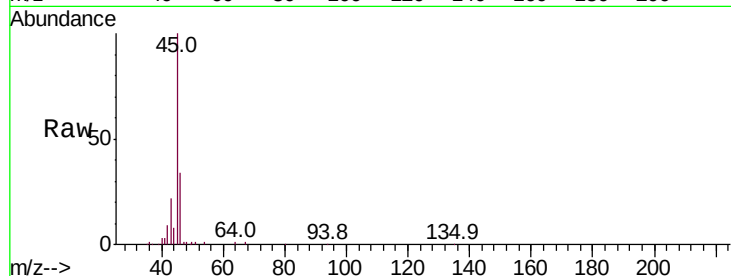
#13
Ethanol
Concen: 7.473 ppbv
RT: 3.65 min Scan# 222
Delta R.T. 0.01 min
Lab File: VL033809.D
Acq: 28 May 2019 17:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
45	100		
46	36.5	14.8	59.0

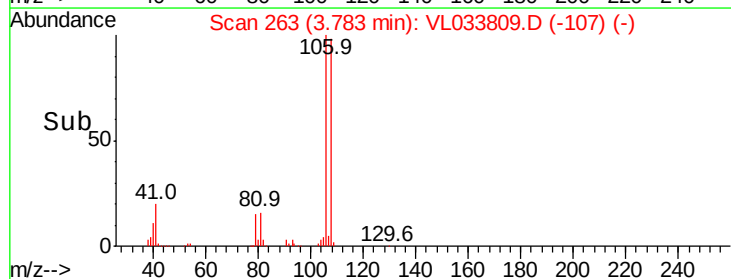
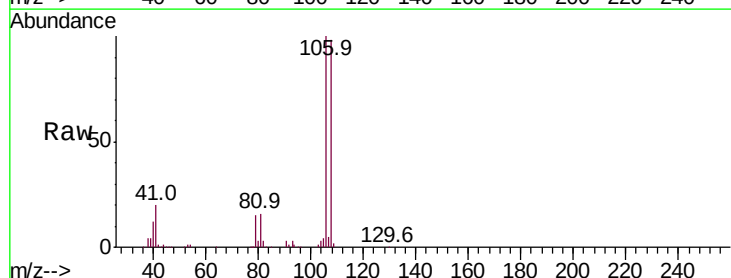
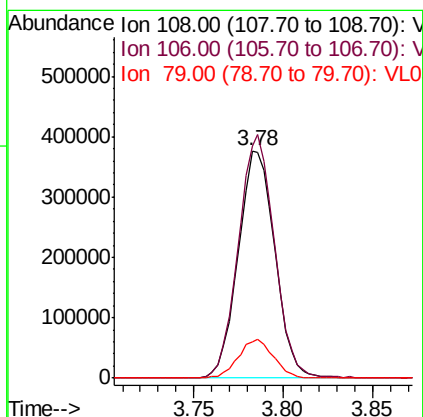
Manual Integrations
APPROVED

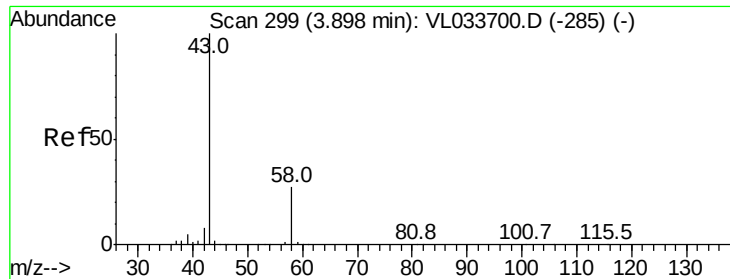
apatel
5/29/2019 12:40:28 PM



#14
Bromoethene
Concen: 11.055 ppbv
RT: 3.78 min Scan# 263
Delta R.T. 0.00 min
Lab File: VL033809.D
Acq: 28 May 2019 17:42

Tgt Ion	Ratio	Lower	Upper
108	100		
106	105.1	86.5	129.7
79	16.7	15.1	22.7





#15

Acetone

Concen: 8.571 ppbv

RT: 3.90 min Scan# 299

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1124311

Ion Ratio Lower Upper

43 100

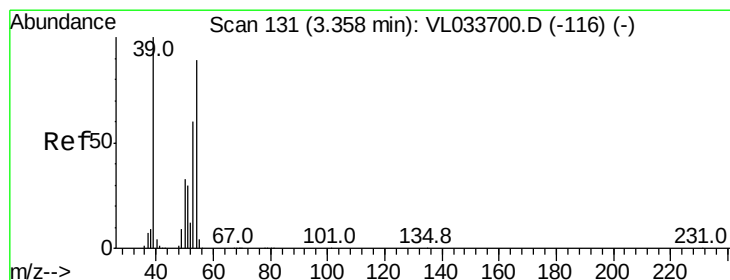
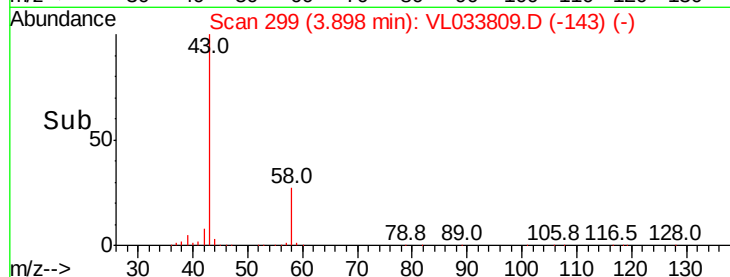
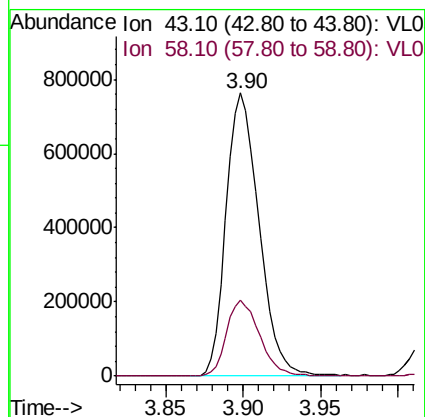
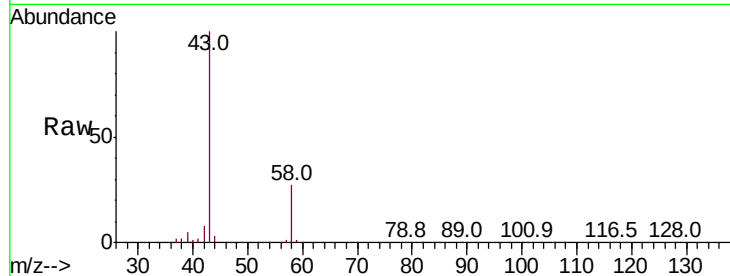
58 27.0 21.3 31.9

Manual Integrations

APPROVED

apatel

5/29/2019 12:40:28 PM



#16

1,3-Butadiene

Concen: 10.926 ppbv

RT: 3.36 min Scan# 132

Delta R.T. 0.00 min

Lab File: VL033809.D

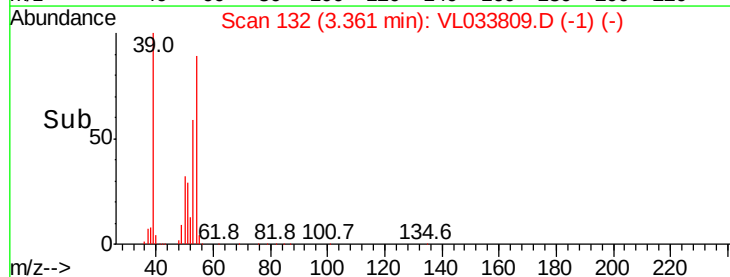
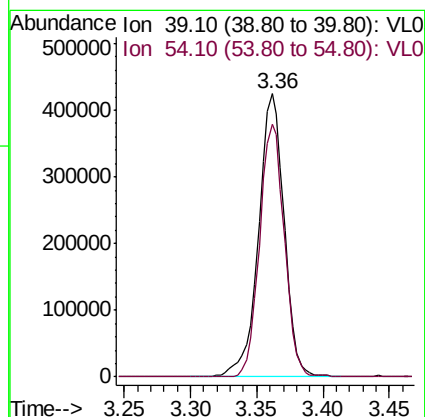
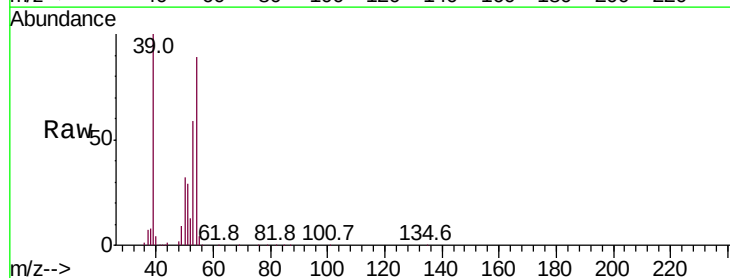
Acq: 28 May 2019 17:42

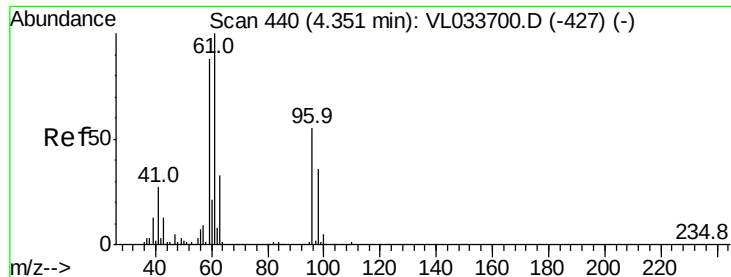
Tgt Ion: 39 Resp: 570756

Ion Ratio Lower Upper

39 100

54 86.7 69.0 103.6





#17

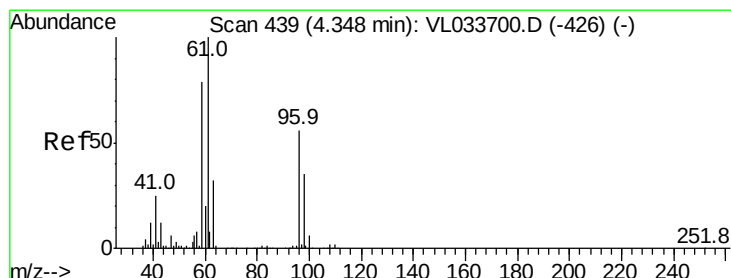
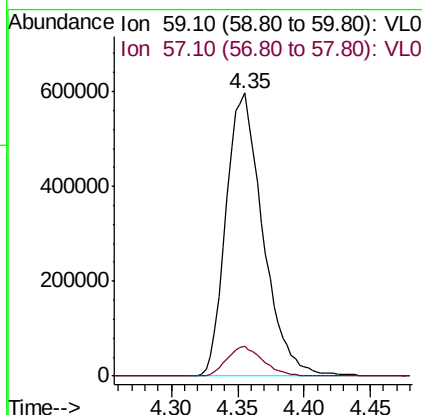
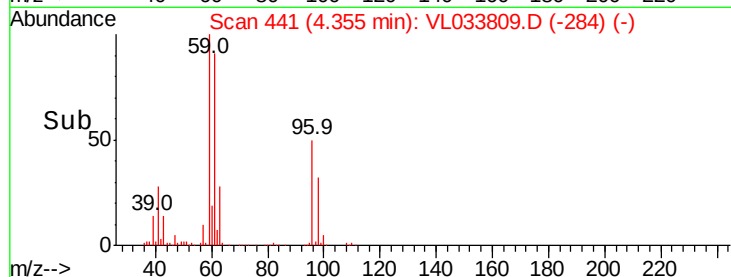
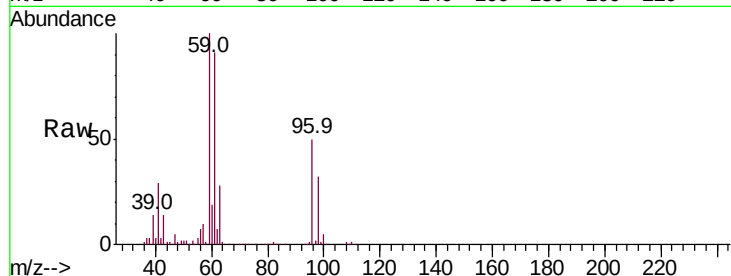
tert-Butyl alcohol
 Concen: 10.895 ppbv
 RT: 4.35 min Scan# 441
 Delta R.T. 0.00 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 59 Resp: 1155671
 Ion Ratio Lower Upper
 59 100
 57 10.4 8.4 12.6

Manual Integrations
 APPROVED

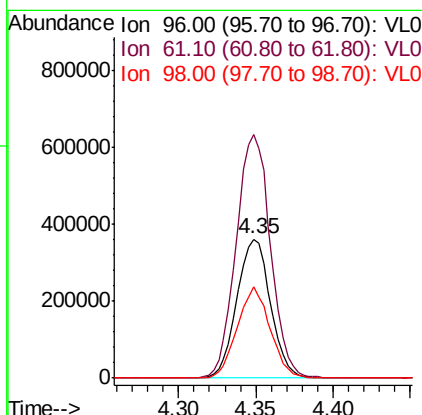
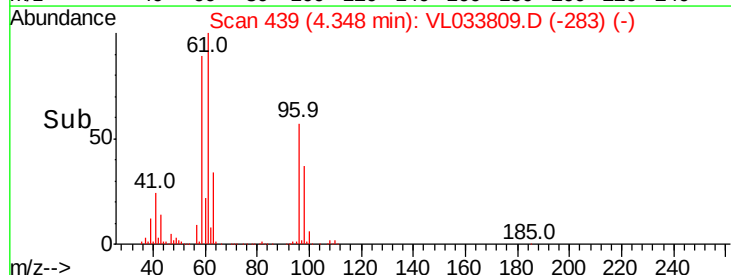
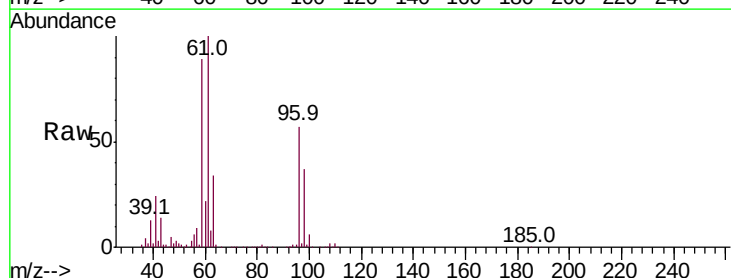
apatel
 5/29/2019 12:40:28 PM

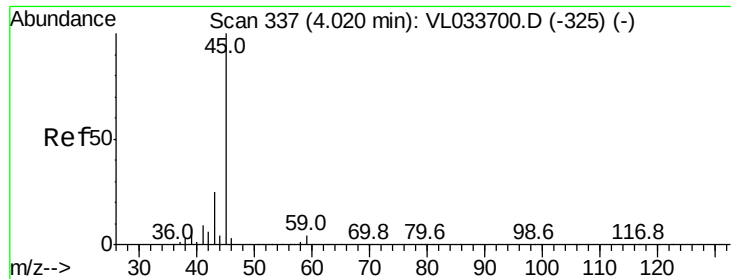


#18

1,1-Dichloroethene
 Concen: 9.759 ppbv
 RT: 4.35 min Scan# 439
 Delta R.T. 0.00 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Tgt Ion: 96 Resp: 546971
 Ion Ratio Lower Upper
 96 100
 61 175.5 143.1 214.7
 98 65.4 49.5 74.3





#19

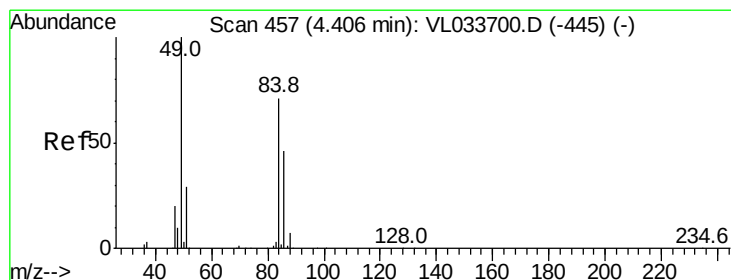
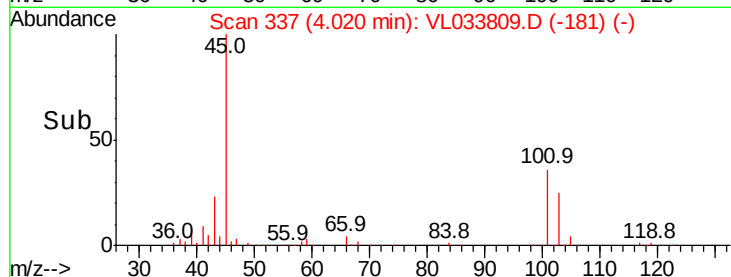
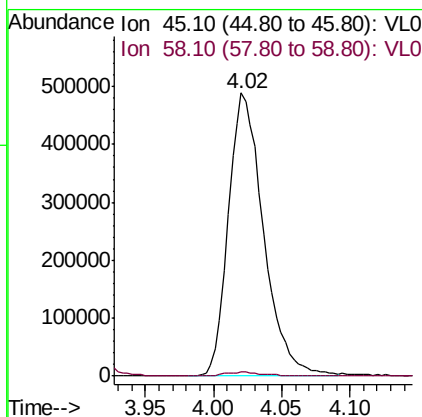
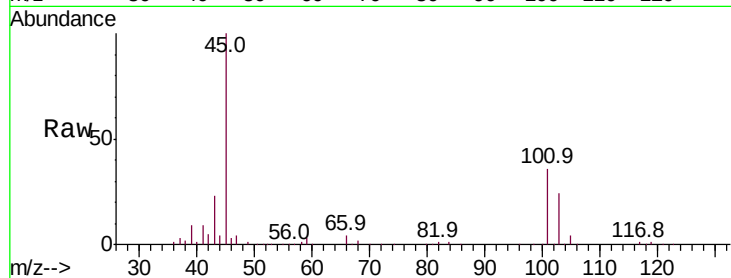
Isopropyl Alcohol
 Concen: 10.343 ppbv
 RT: 4.02 min Scan# 337
 Delta R.T. 0.00 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
45	100		
58	1.7	1.6	2.4

Manual Integrations
 APPROVED

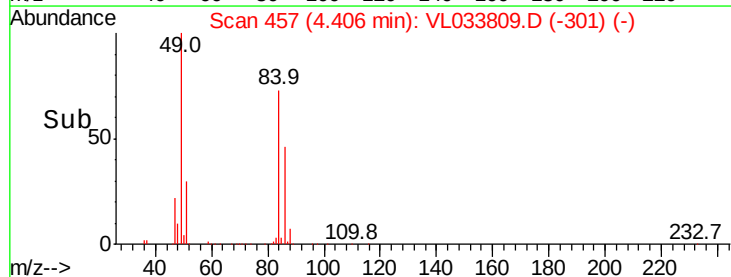
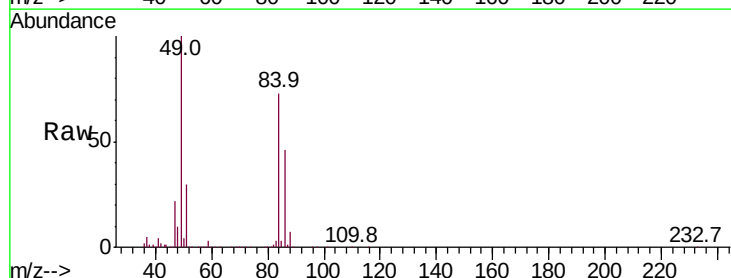
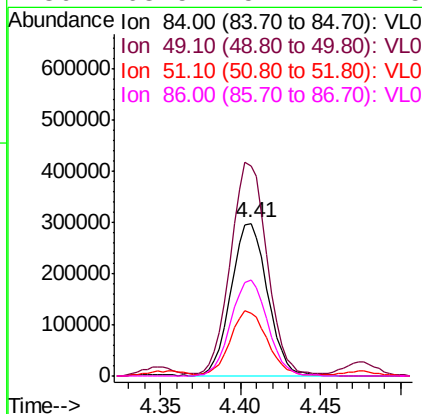
apatel
 5/29/2019 12:40:28 PM

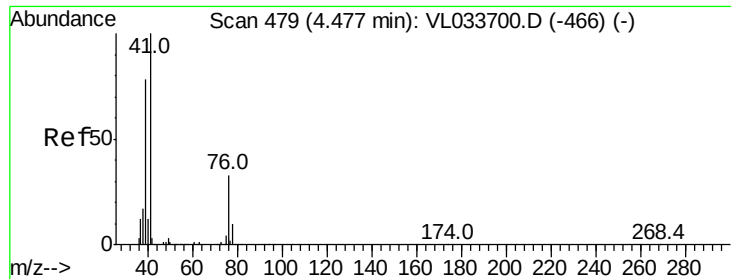


#20

Methylene Chloride
 Concen: 9.096 ppbv
 RT: 4.41 min Scan# 457
 Delta R.T. 0.00 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Tgt Ion	Ratio	Lower	Upper
84	100		
49	136.3	112.8	169.2
51	39.8	33.4	50.0
86	63.5	51.7	77.5





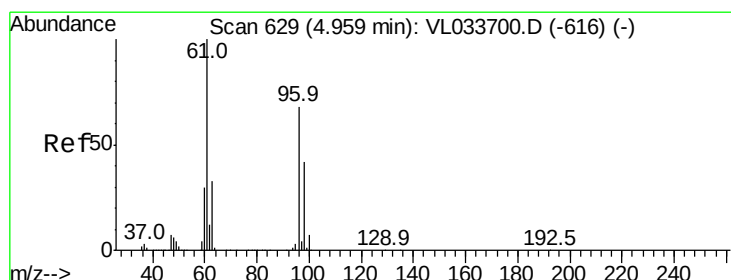
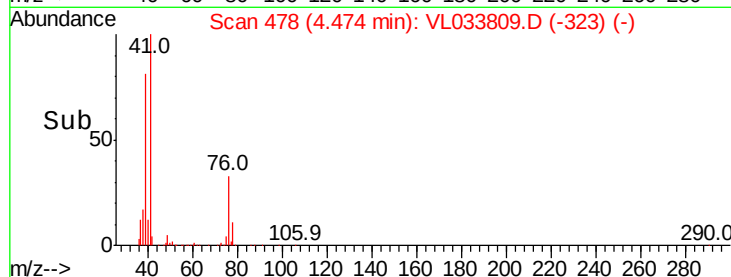
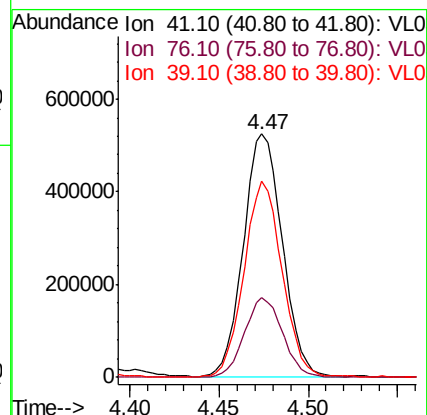
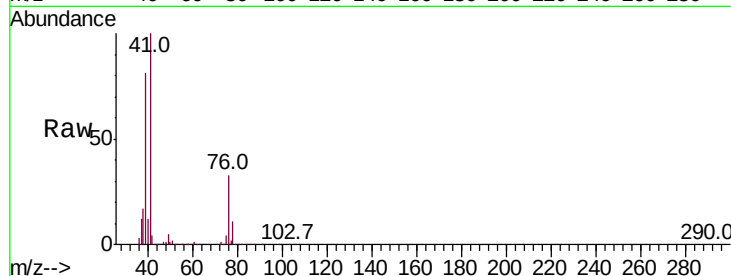
#21
Allvl Chloride
Concen: 9.778 ppbv
RT: 4.47 min Scan# 478
Delta R.T. -0.00 min
Lab File: VL033809.D
Acq: 28 May 2019 17:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	32.3	25.9	38.9
39	79.8	64.6	97.0

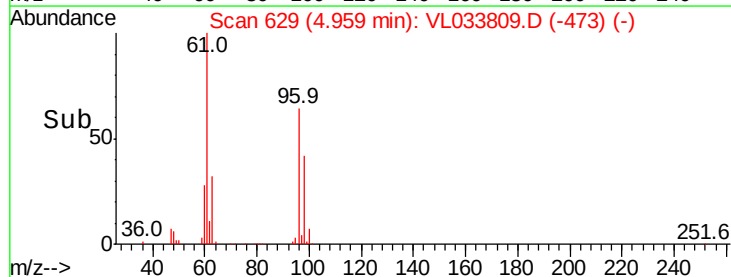
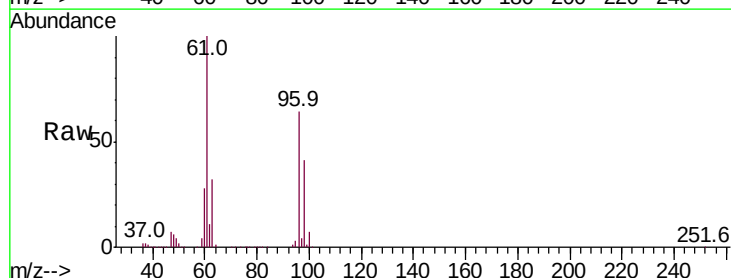
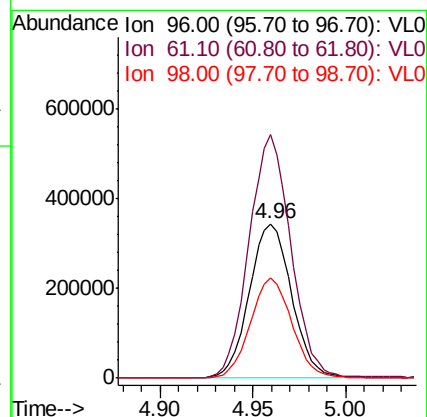
Manual Integrations
APPROVED

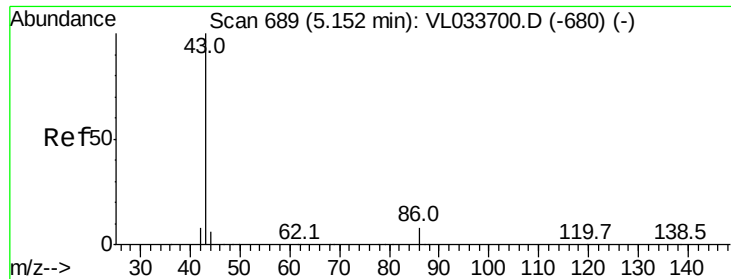
apatel
5/29/2019 12:40:28 PM



#22
trans-1,2-Dichloroethene
Concen: 9.512 ppbv
RT: 4.96 min Scan# 629
Delta R.T. 0.00 min
Lab File: VL033809.D
Acq: 28 May 2019 17:42

Tgt Ion	Ratio	Lower	Upper
96	100		
61	157.4	116.8	175.2
98	65.2	49.4	74.0





#23

Vinyl Acetate

Concen: 11.022 ppbv

RT: 5.15 min Scan# 689

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1906287

Ion Ratio Lower Upper

43 100

86 8.6 6.0 9.0

42 9.3 7.5 11.3

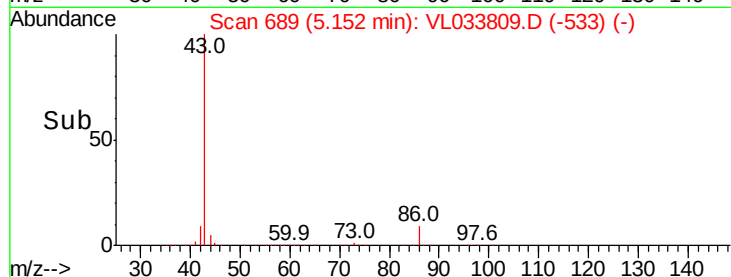
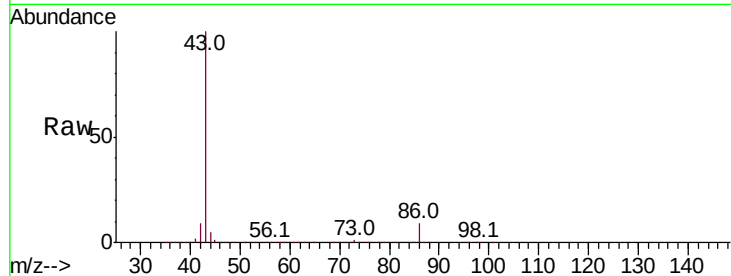
44 4.9 4.4 6.6

Manual Integrations

APPROVED

apatel

5/29/2019 12:40:28 PM

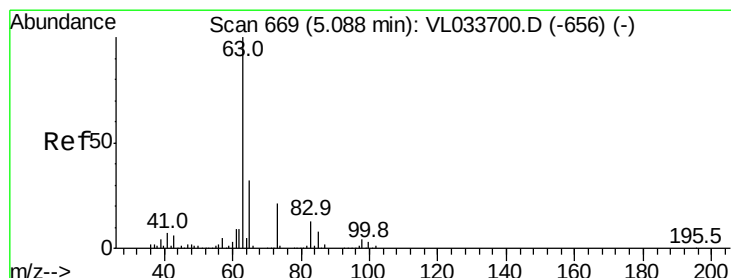
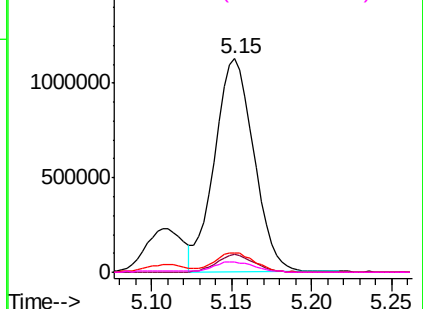


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.903 ppbv

RT: 5.09 min Scan# 669

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

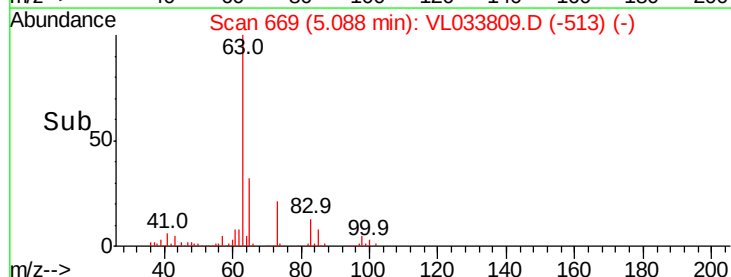
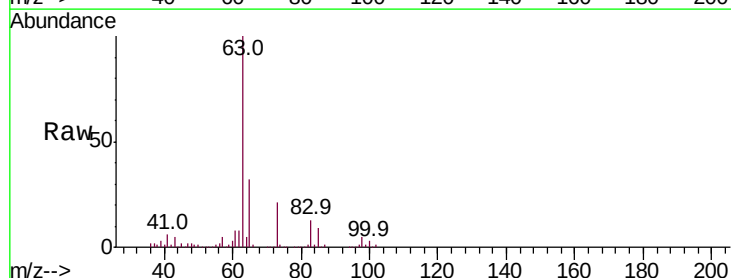
Tgt Ion: 63 Resp: 1301990

Ion Ratio Lower Upper

63 100

98 4.5 1.8 5.5

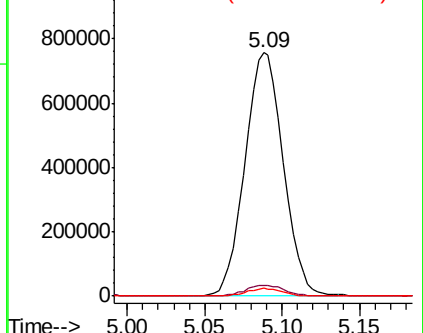
100 3.1 1.4 4.2

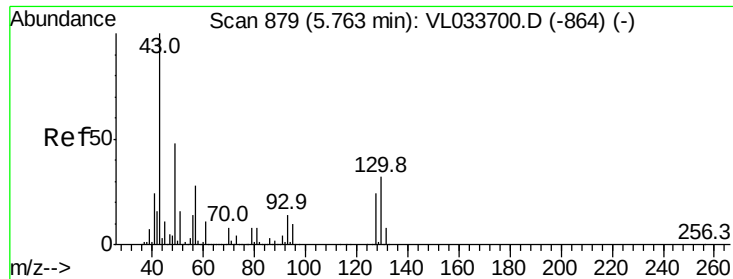


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





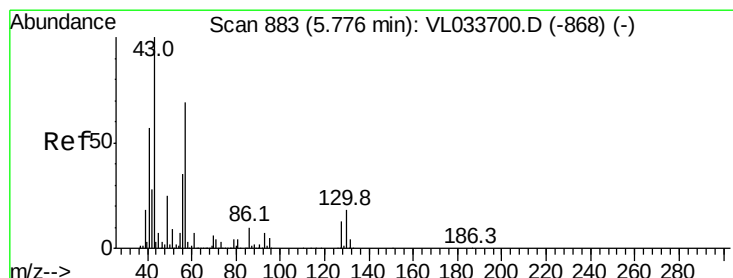
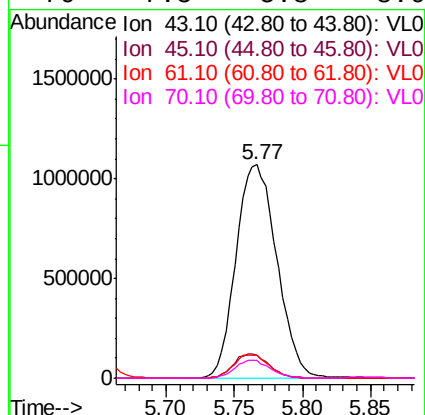
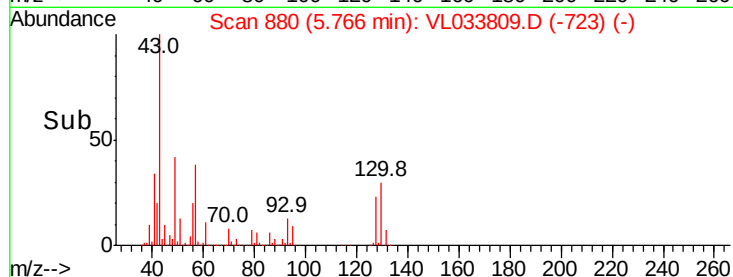
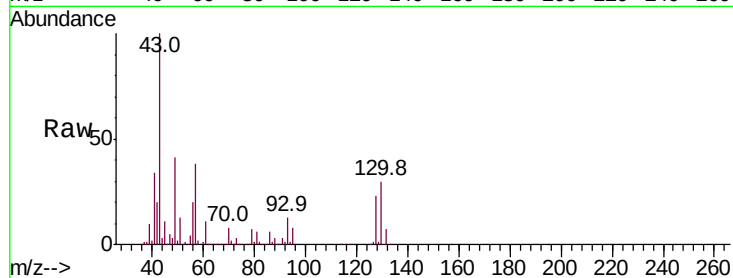
#25
Ethyl Acetate
Concen: 9.647 ppbv
RT: 5.77 min Scan# 880
Delta R.T. 0.00 min
Lab File: VL033809.D
Acq: 28 May 2019 17:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
43	100		
45	10.2	7.9	11.9
61	9.8	7.7	11.5
70	7.5	5.8	8.6

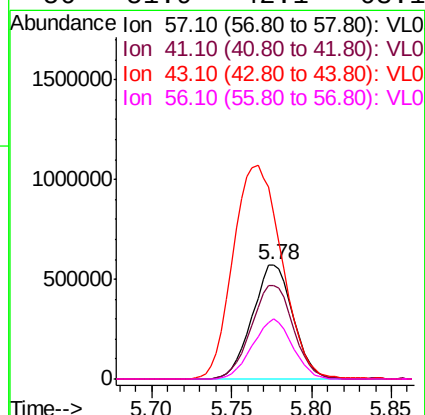
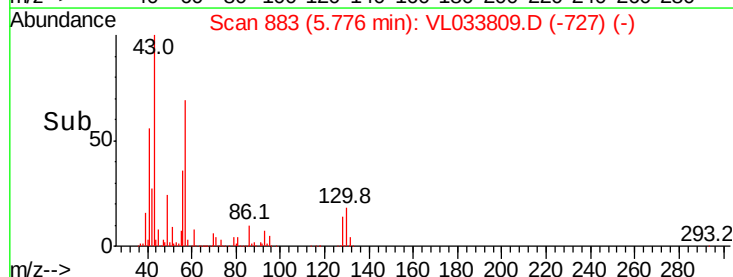
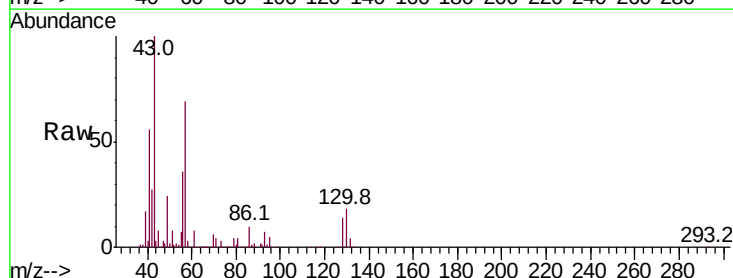
Manual Integrations
APPROVED

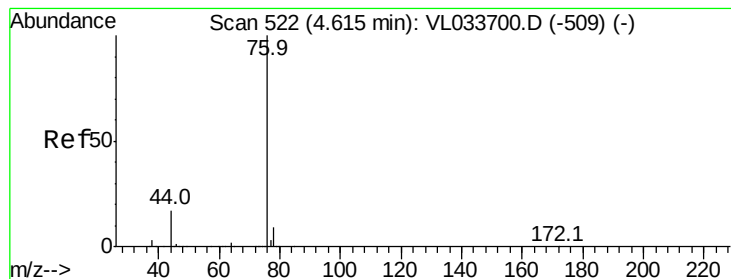
apatel
5/29/2019 12:40:28 PM



#26
Hexane
Concen: 10.090 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL033809.D
Acq: 28 May 2019 17:42

Tgt Ion	Ratio	Lower	Upper
57	100		
41	85.1	69.8	104.6
43	223.8	181.8	272.6
56	51.9	42.1	63.1





#27

Carbon Disulfide

Concen: 9.768 ppbv

RT: 4.62 min Scan# 522

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1327609

Ion Ratio Lower Upper

76 100

44 16.9 13.8 20.8

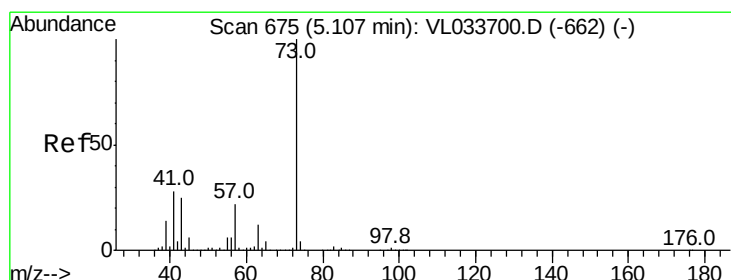
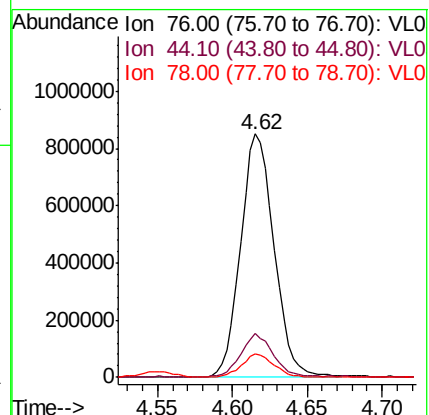
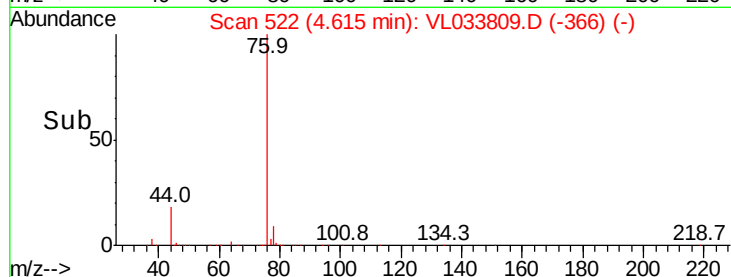
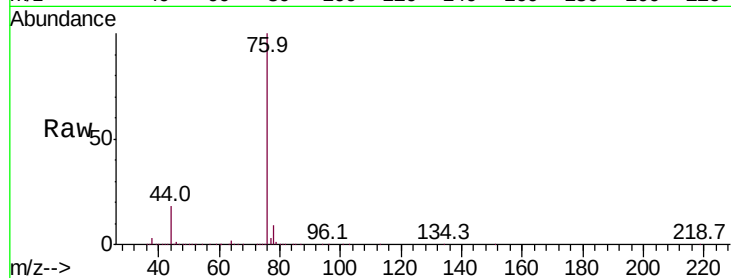
78 9.2 7.4 11.0

Manual Integrations

APPROVED

apatel

5/29/2019 12:40:28 PM



#28

Methyl tert-Butyl Ether

Concen: 11.047 ppbv

RT: 5.11 min Scan# 675

Delta R.T. 0.00 min

Lab File: VL033809.D

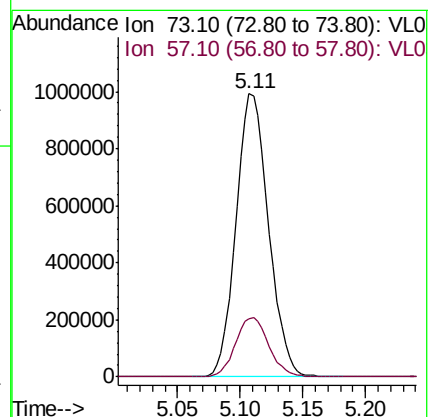
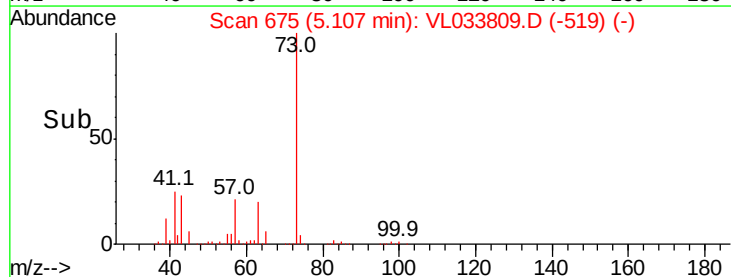
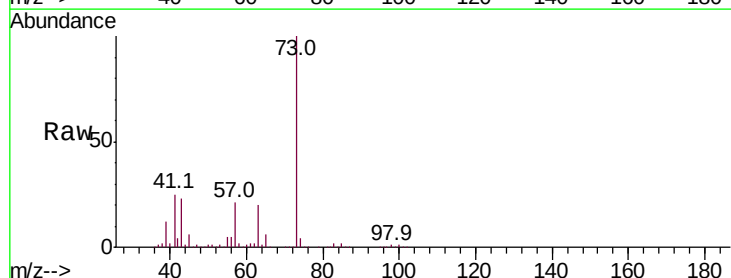
Acq: 28 May 2019 17:42

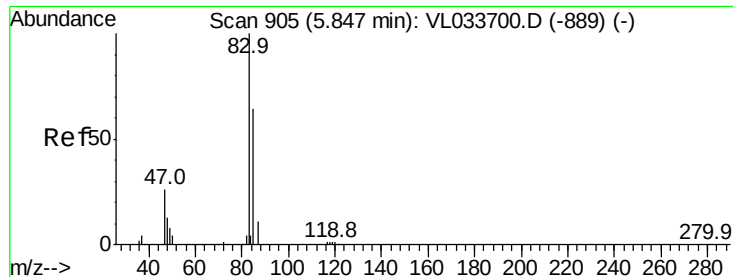
Tgt Ion: 73 Resp: 1784077

Ion Ratio Lower Upper

73 100

57 21.6 17.4 26.2





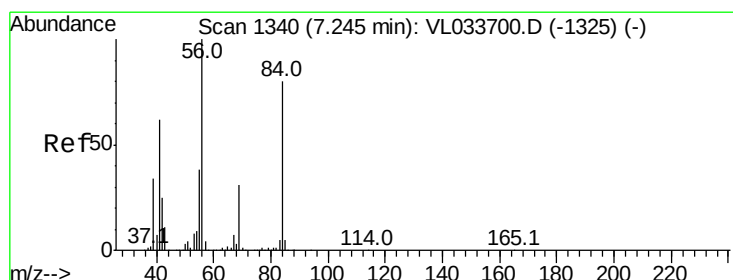
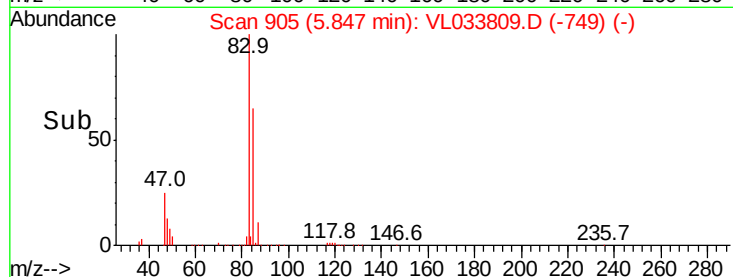
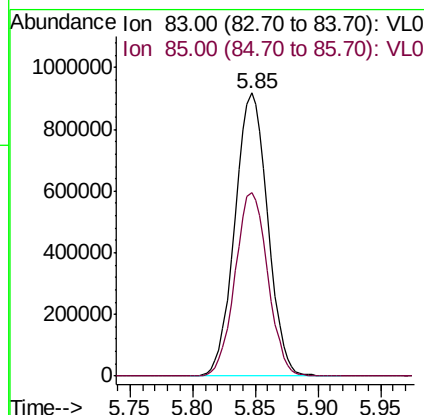
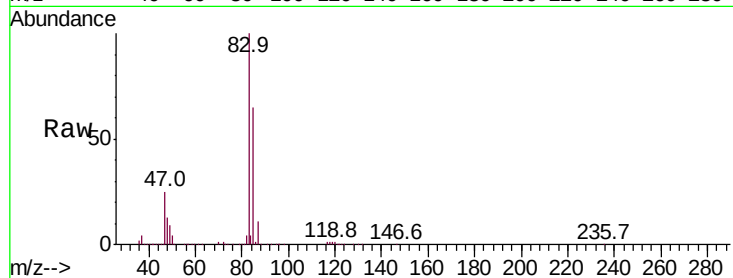
#29
Chloroform
Concen: 9.148 ppbv
RT: 5.85 min Scan# 905
Delta R.T. 0.00 min
Lab File: VL033809.D
Acq: 28 May 2019 17:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1669286
Ion Ratio Lower Upper
83 100
85 64.9 51.5 77.3

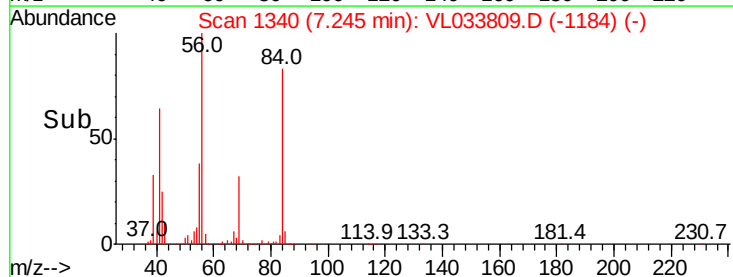
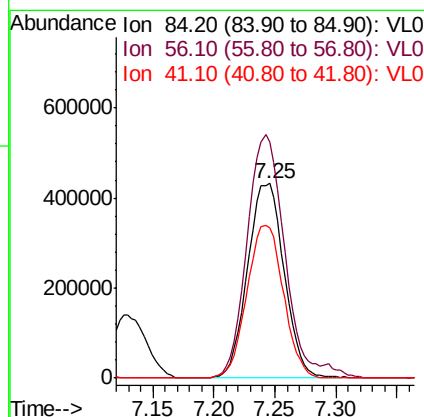
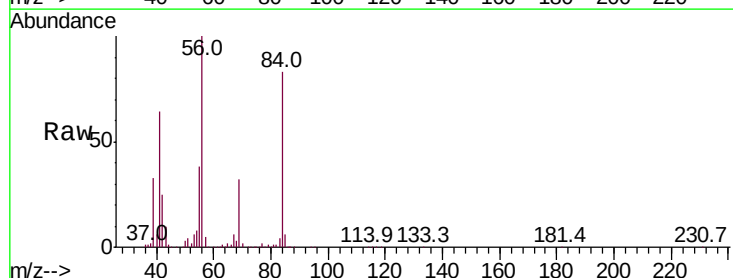
Manual Integrations
APPROVED

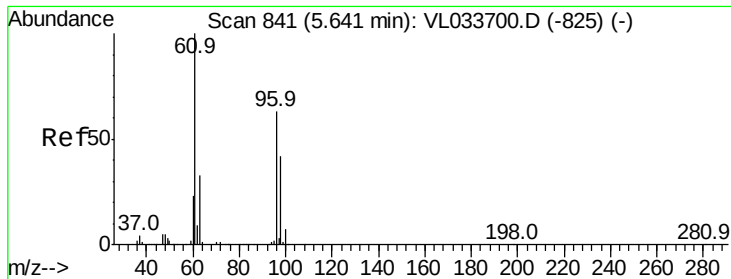
apatel
5/29/2019 12:40:28 PM



#30
Cyclohexane
Concen: 10.752 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VL033809.D
Acq: 28 May 2019 17:42

Tgt Ion: 84 Resp: 895474
Ion Ratio Lower Upper
84 100
56 130.1 107.7 161.5
41 78.3 66.0 99.0





#31

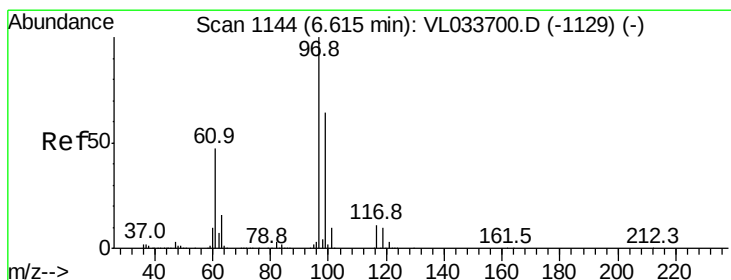
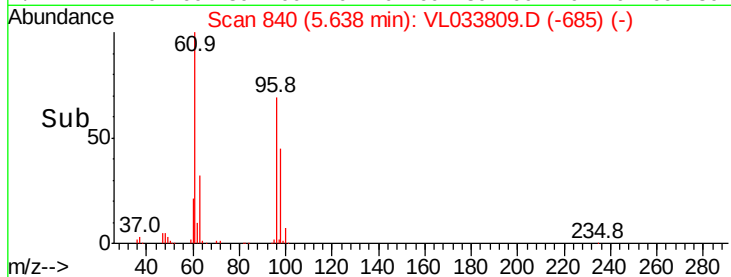
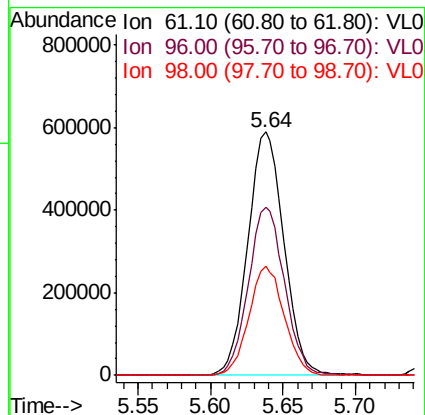
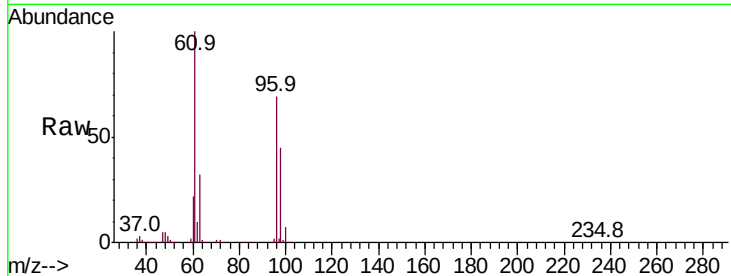
cis-1,2-Dichloroethene
 Concen: 10.414 ppbv
 RT: 5.64 min Scan# 840
 Delta R.T. -0.00 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	69.1	50.8	76.2
98	44.8	33.3	49.9

Manual Integrations
 APPROVED

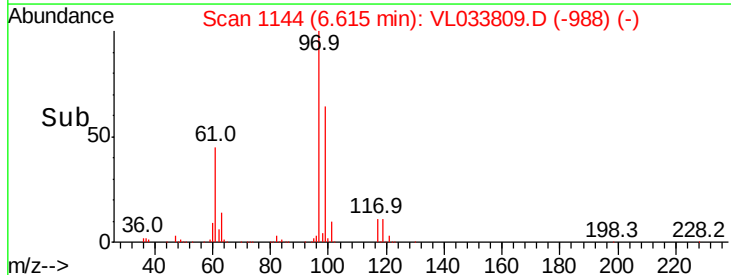
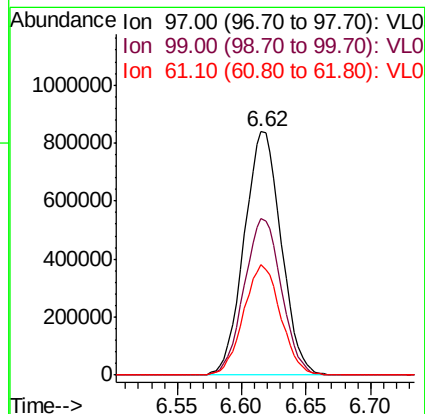
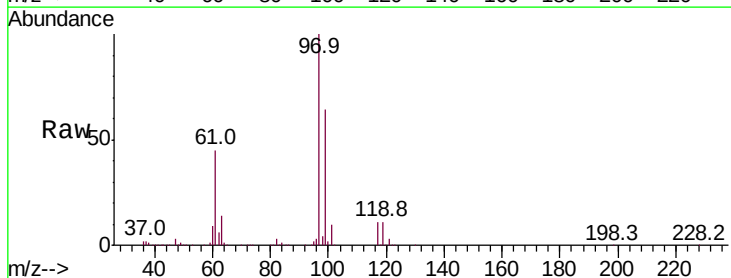
apatel
 5/29/2019 12:40:28 PM

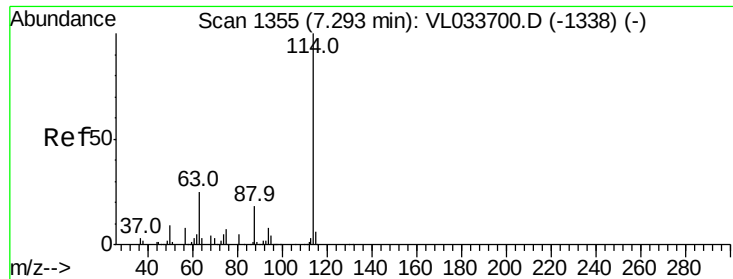


#32

1,1,1-Trichloroethane
 Concen: 9.214 ppbv
 RT: 6.62 min Scan# 1144
 Delta R.T. 0.00 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.5	77.3
61	45.6	37.8	56.8





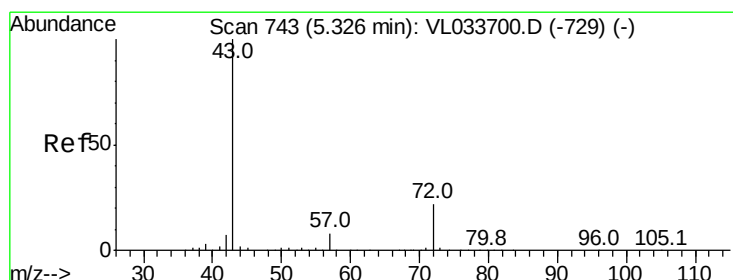
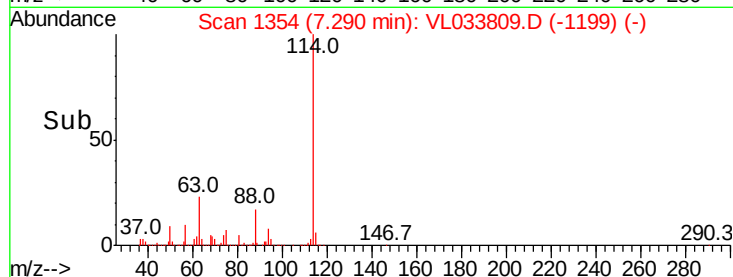
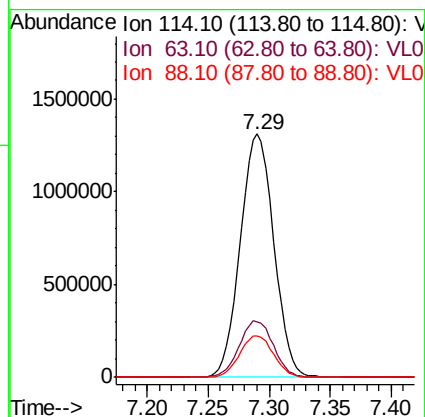
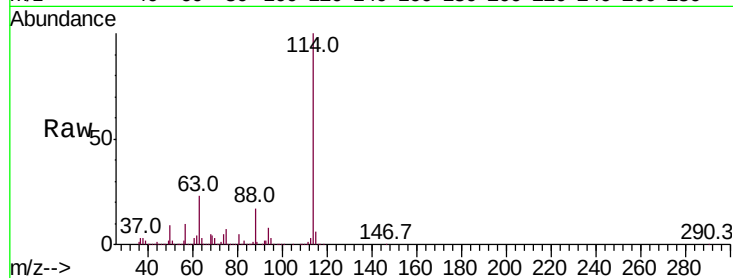
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.00 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.9	20.9	31.3
88	17.4	14.3	21.5

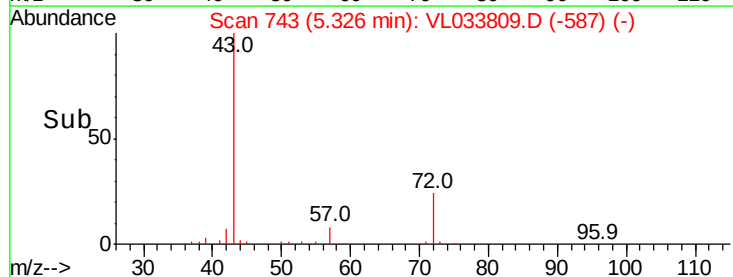
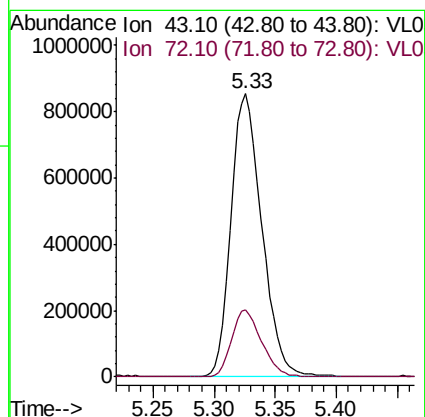
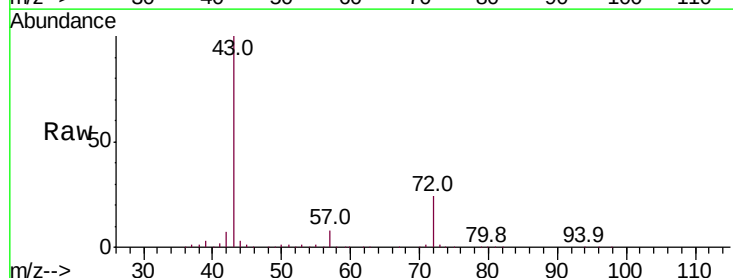
Manual Integrations
 APPROVED

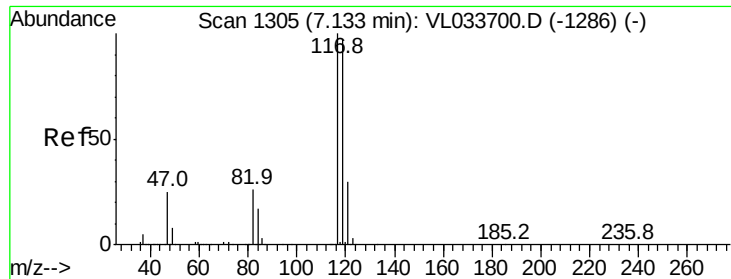
apatel
 5/29/2019 12:40:28 PM



#34
 2-Butanone
 Concen: 9.732 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. 0.00 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.1	17.8	26.6





#35

Carbon Tetrachloride

Concen: 8.688 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 1731370

Ion Ratio Lower Upper

117 100

119 96.4 77.2 115.8

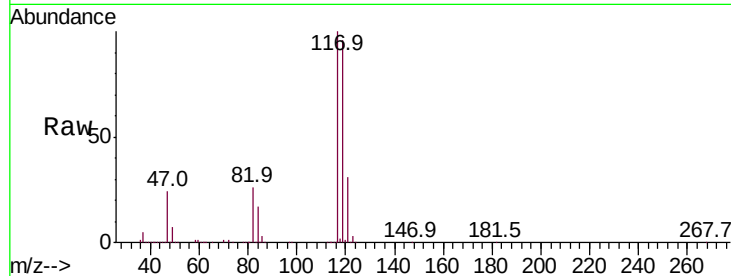
121 31.4 24.1 36.1

Manual Integrations

APPROVED

apatel

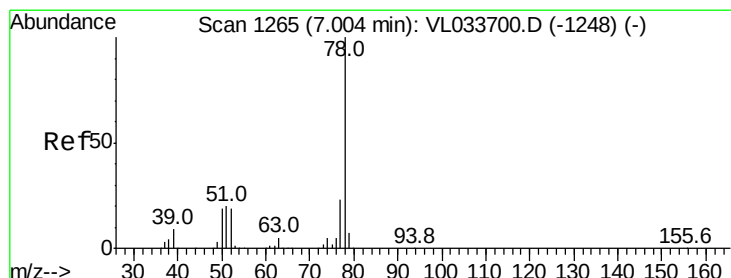
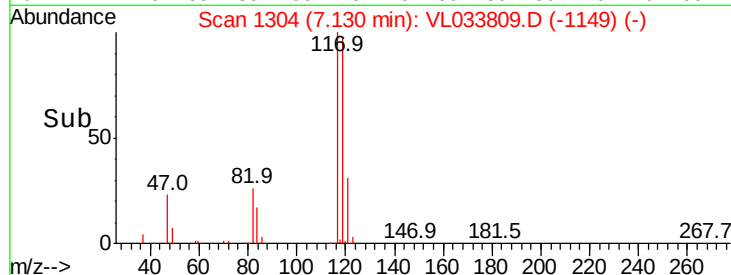
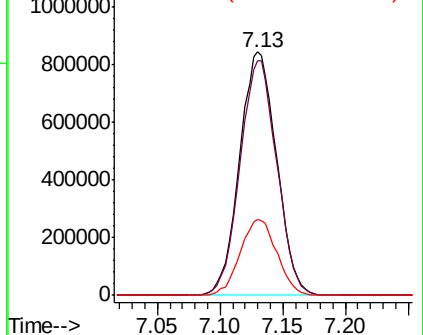
5/29/2019 12:40:28 PM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.506 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

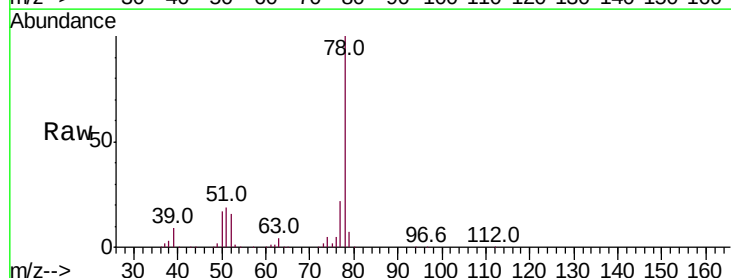
Tgt Ion: 78 Resp: 2151234

Ion Ratio Lower Upper

78 100

77 22.1 18.4 27.6

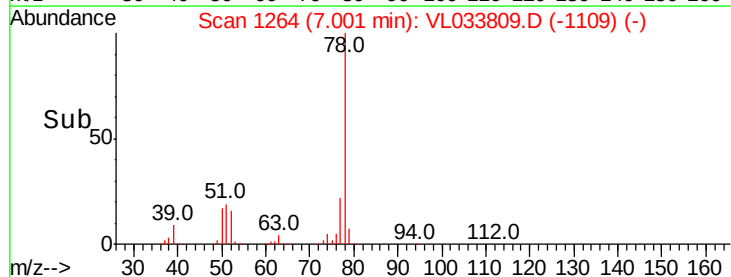
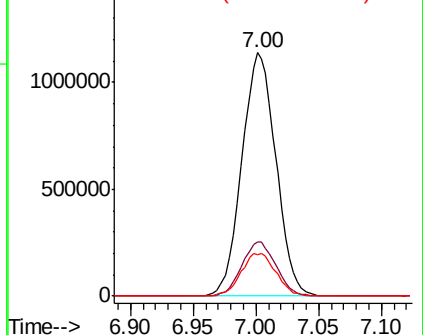
50 17.0 15.5 23.3

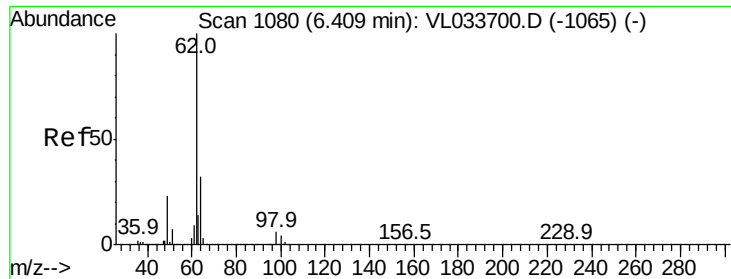


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





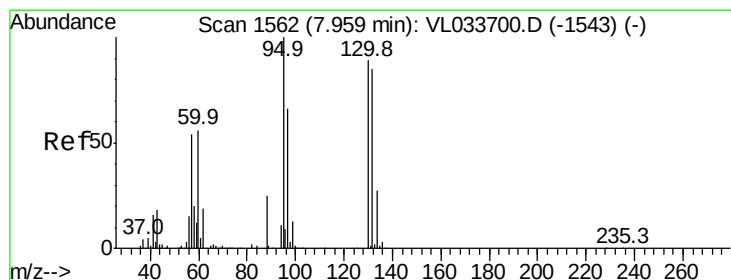
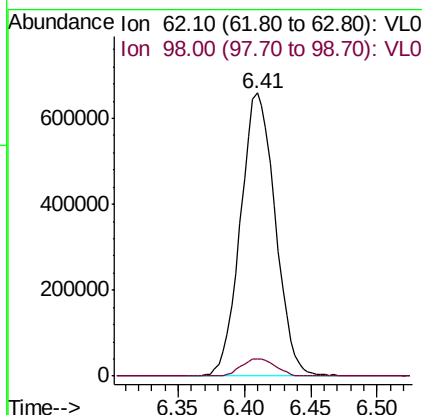
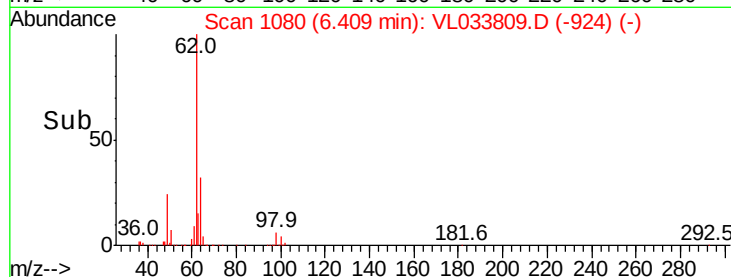
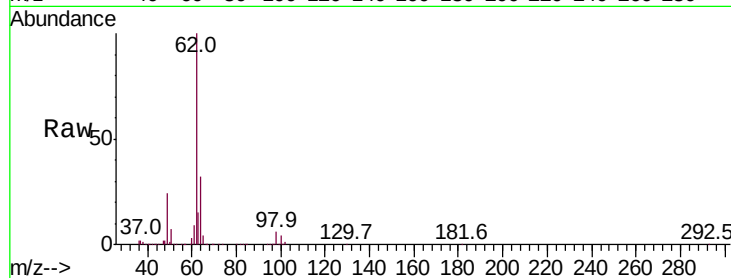
#37
 1,2-Dichloroethane
 Concen: 8.239 ppbv
 RT: 6.41 min Scan# 1080
 Delta R.T. 0.00 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.3	4.5	6.7

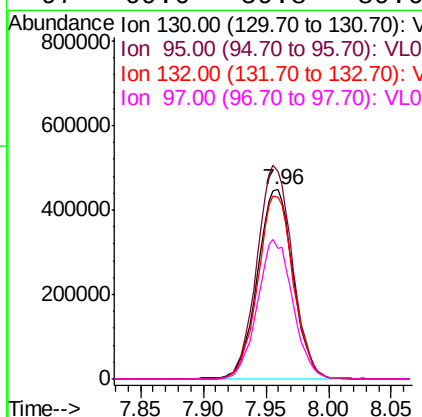
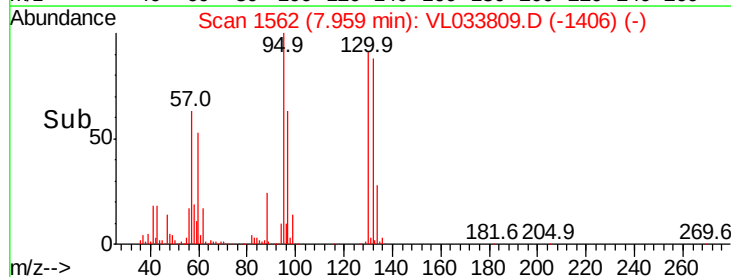
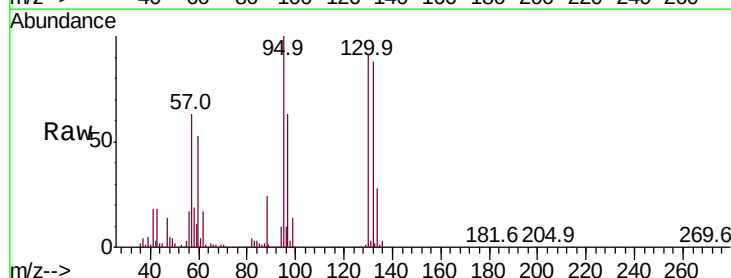
Manual Integrations
 APPROVED

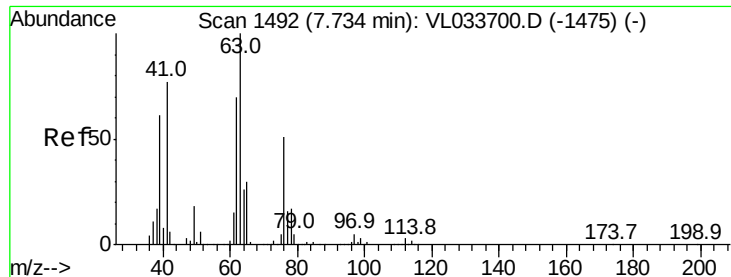
apatel
 5/29/2019 12:40:28 PM



#38
 Trichloroethene
 Concen: 10.611 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. 0.00 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Tgt Ion	Ratio	Lower	Upper
130	100		
95	109.6	90.2	135.4
132	96.3	76.4	114.6
97	69.0	59.8	89.6





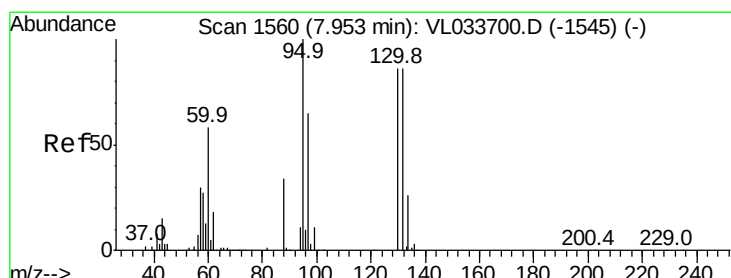
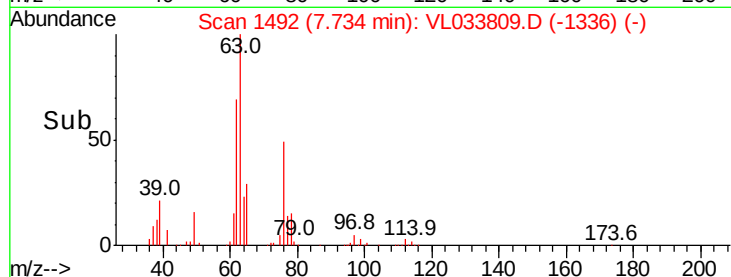
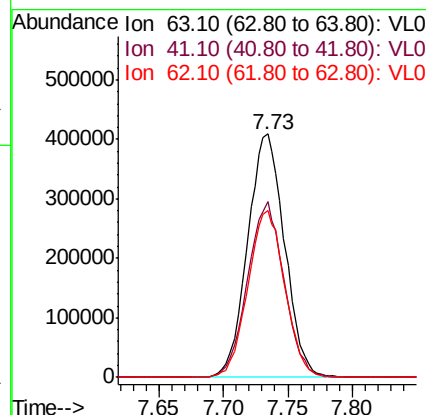
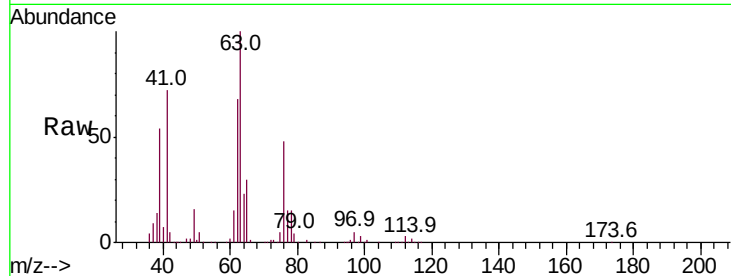
#39
 1,2-Dichloropropane
 Concen: 9.684 ppbv
 RT: 7.73 min Scan# 1492
 Delta R.T. 0.00 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	72.1	61.5	92.3
62	68.4	56.2	84.4

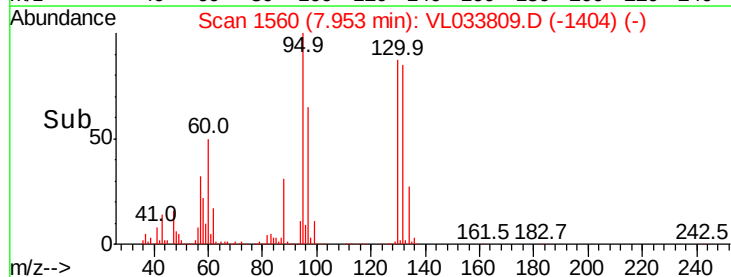
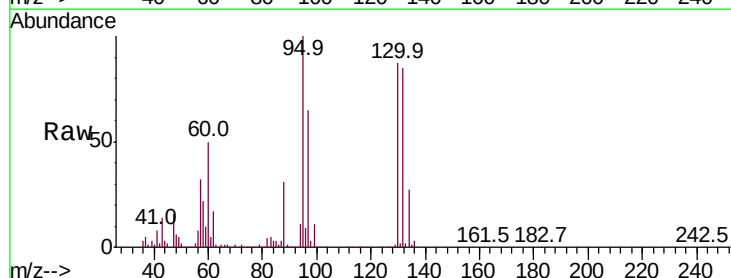
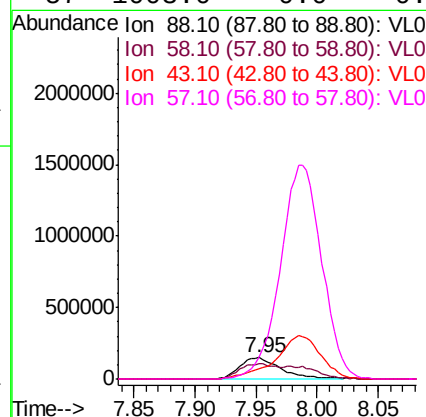
Manual Integrations
 APPROVED

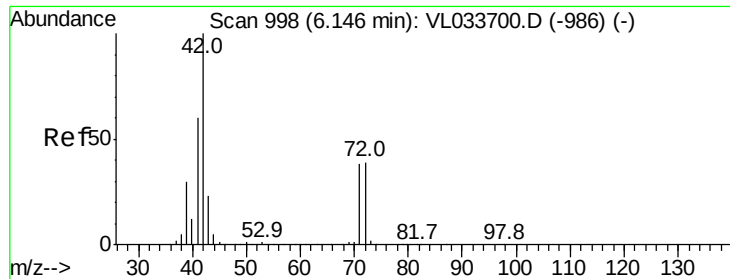
apatel
 5/29/2019 12:40:28 PM



#40
 1,4-Dioxane
 Concen: 10.036 ppbv
 RT: 7.95 min Scan# 1560
 Delta R.T. 0.00 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Tgt Ion	Ratio	Lower	Upper
88	100		
58	114.8	101.8	152.6
43	222.2	0.0	0.0#
57	1003.0	0.0	0.0#





#41

Tetrahydrofuran

Concen: 9.949 ppbv

RT: 6.15 min Scan# 998

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

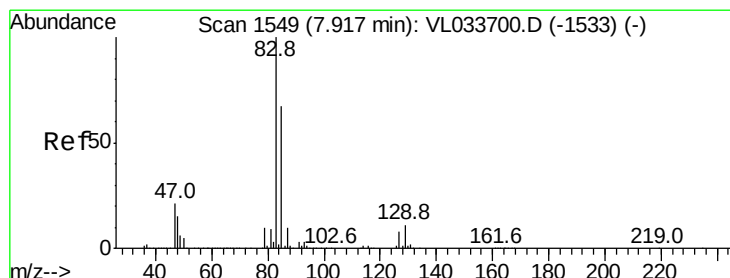
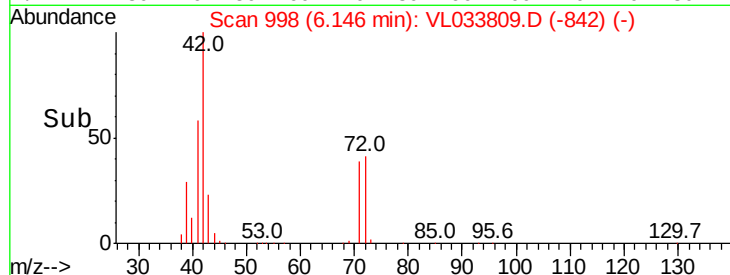
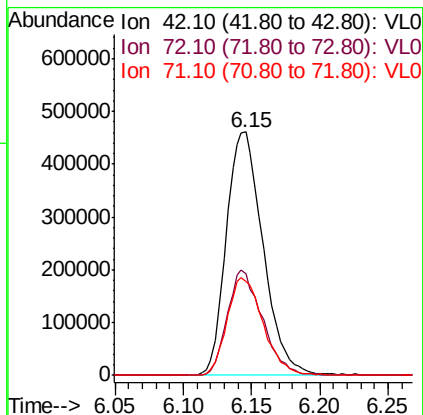
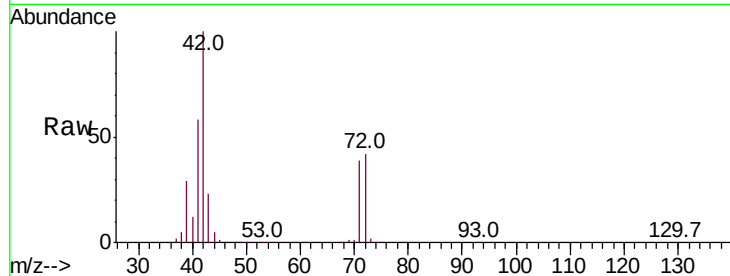
ClientSampleId :

VSTDCCC010EC

Tot Ion:	42	Resp:	859591
Ion Ratio	Lower	Upper	
42	100		
72	41.4	32.0	48.0
71	39.6	30.4	45.6

Manual Integrations
APPROVED

apatel
5/29/2019 12:40:28 PM



#42

Bromodichloromethane

Concen: 9.162 ppbv

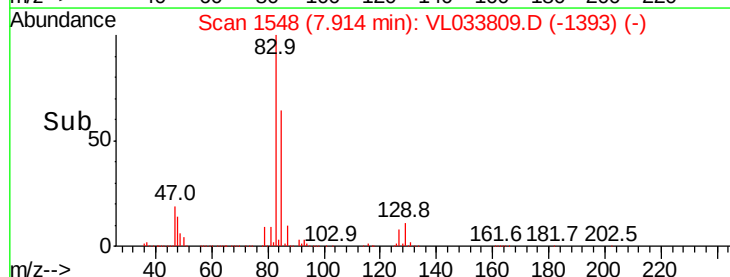
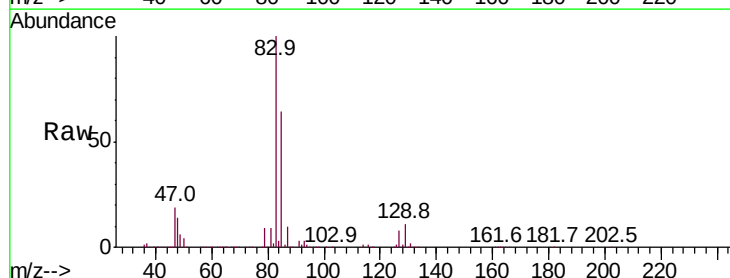
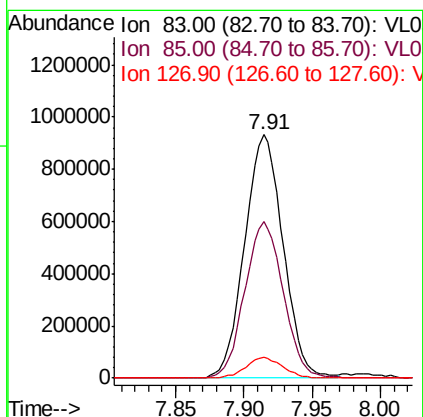
RT: 7.91 min Scan# 1548

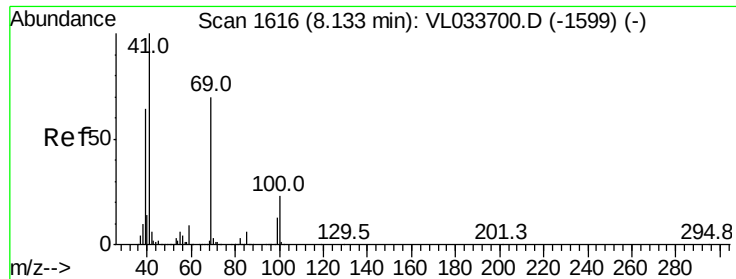
Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Tgt Ion:	83	Resp:	1830961
Ion Ratio	Lower	Upper	
83	100		
85	64.3	53.3	79.9
127	8.4	6.5	9.7





#43

Methyl Methacrylate

Concen: 10.475 ppbv

RT: 8.13 min Scan# 1616

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

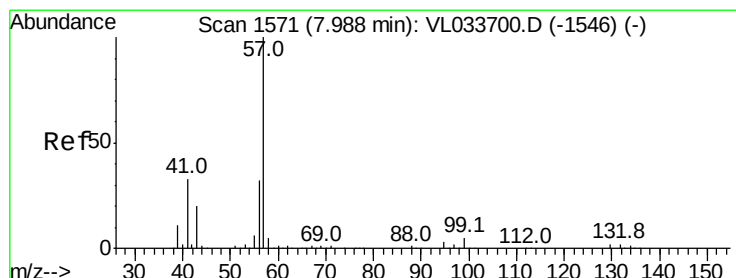
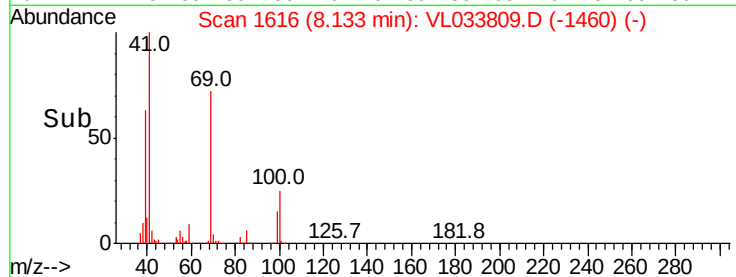
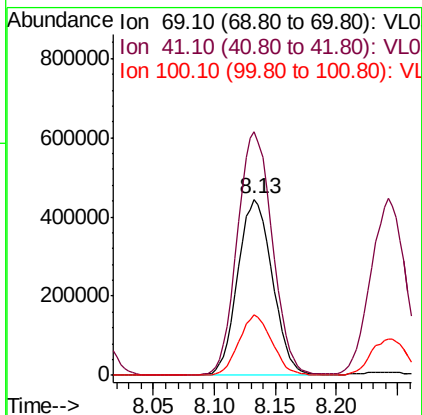
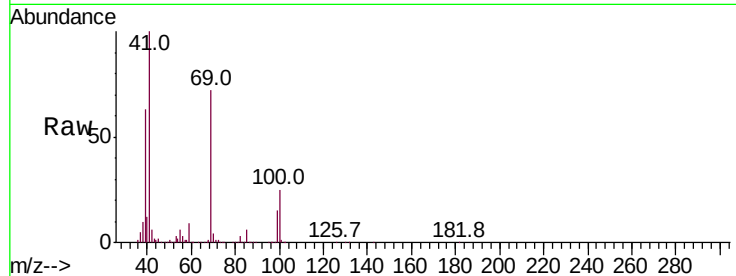
ClientSampleId :

VSTDCCC010EC

Tot Ion:	69	Resp:	872368
Ion Ratio	Lower	Upper	
69	100		
41	139.8	116.3	174.5
100	32.7	25.3	37.9

Manual Integrations
APPROVED

apatel
5/29/2019 12:40:28 PM



#44

2,2,4-Trimethylpentane

Concen: 9.273 ppbv

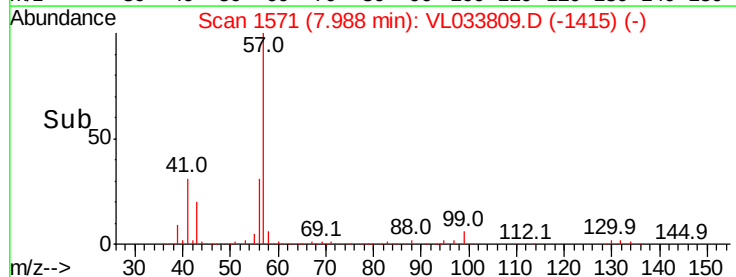
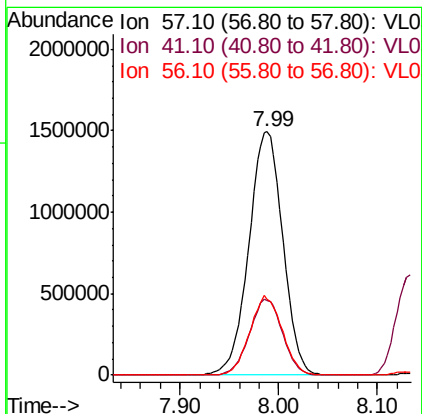
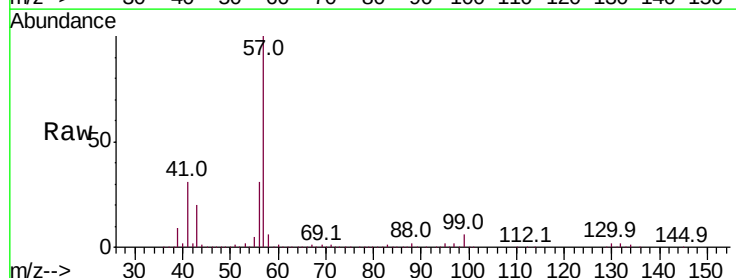
RT: 7.99 min Scan# 1571

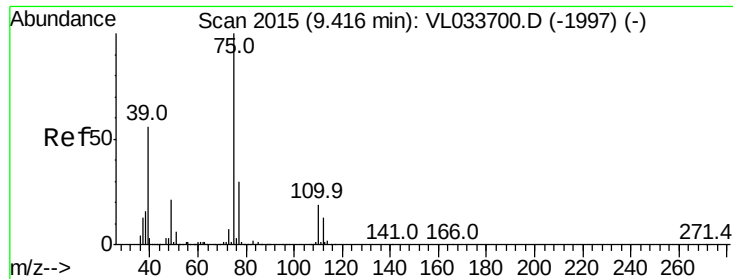
Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Tgt Ion:	57	Resp:	3546574
Ion Ratio	Lower	Upper	
57	100		
41	30.3	25.4	38.0
56	30.9	24.7	37.1





#45

t-1,3-Dichloropropene

Concen: 10.619 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 75 Resp: 1121197

Ion Ratio Lower Upper

75 100

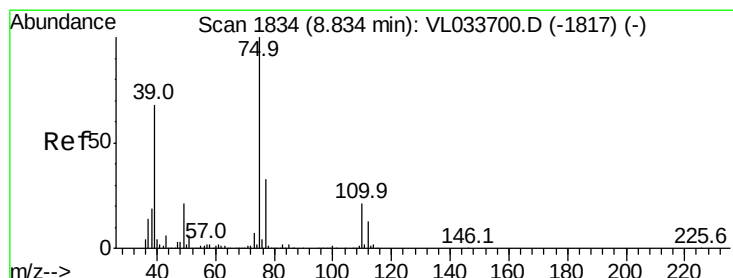
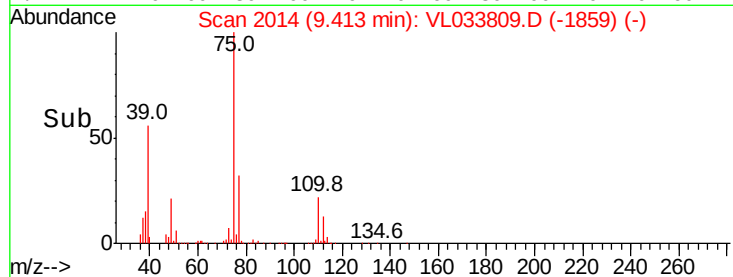
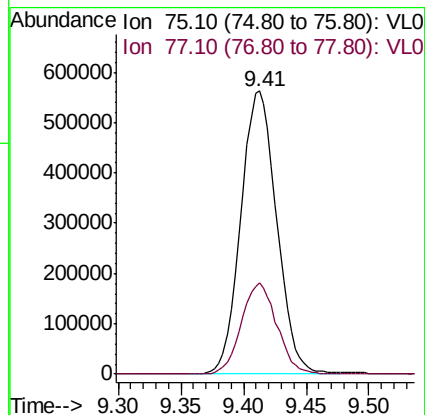
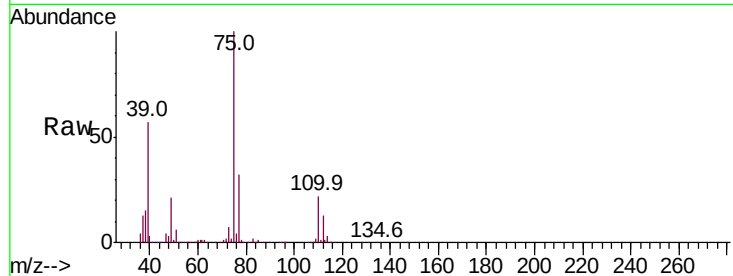
77 32.3 24.4 36.6

Manual Integrations

APPROVED

apatel

5/29/2019 12:40:28 PM



#46

cis-1,3-Dichloropropene

Concen: 10.361 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

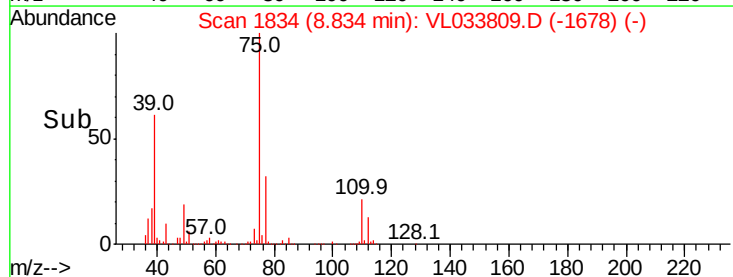
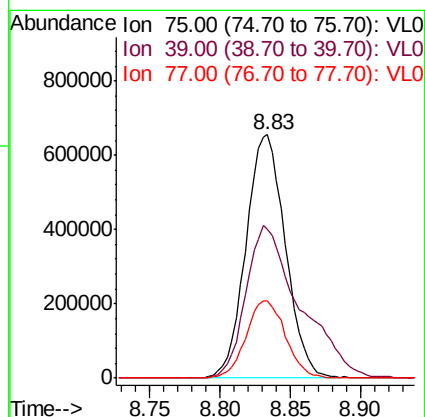
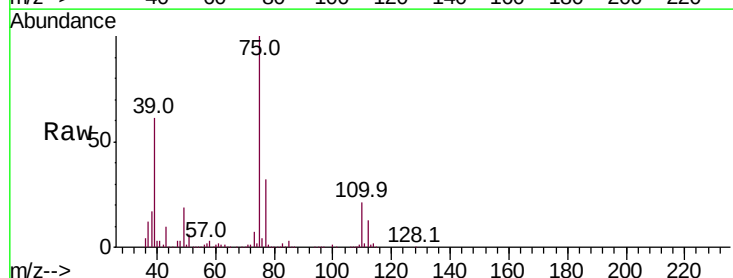
Tgt Ion: 75 Resp: 1280969

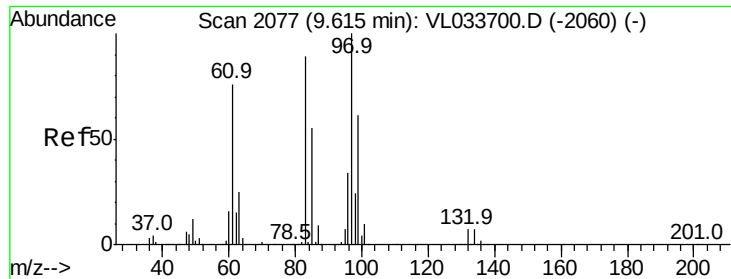
Ion Ratio Lower Upper

75 100

39 61.3 54.4 81.6

77 31.9 26.6 39.8





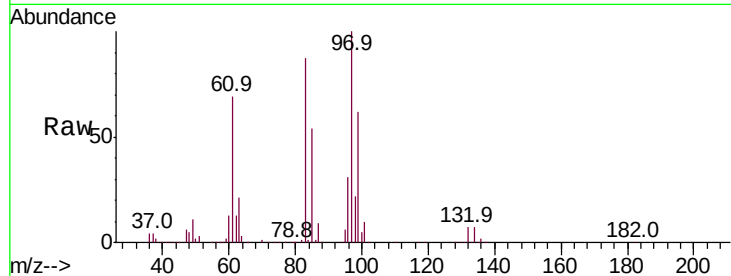
#47
 1,1,2-Trichloroethane
 Concen: 9.375 ppbv
 RT: 9.61 min Scan# 2076
 Delta R.T. -0.00 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

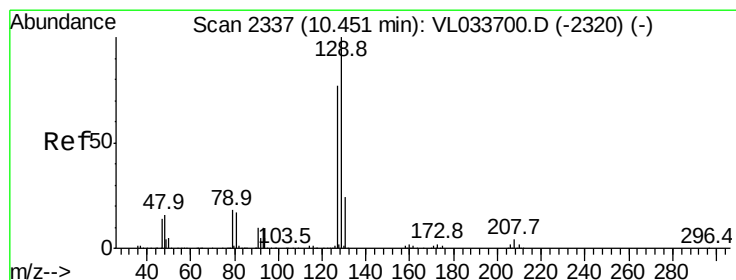
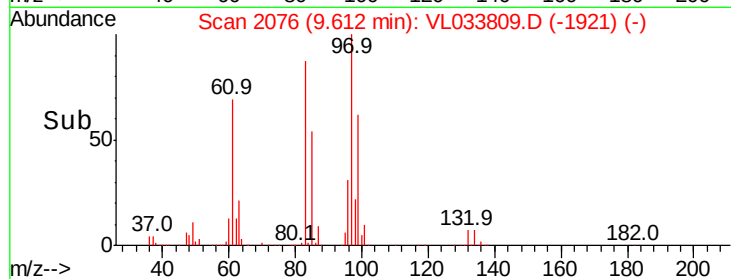
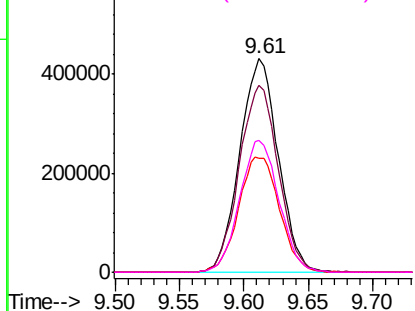
Tot Ion	97	Resp	898592
Ion Ratio	Lower	Upper	
97	100		
83	87.3	70.8	106.2
85	53.5	43.7	65.5
99	61.8	48.7	73.1

Manual Integrations
 APPROVED

apatel
 5/29/2019 12:40:28 PM

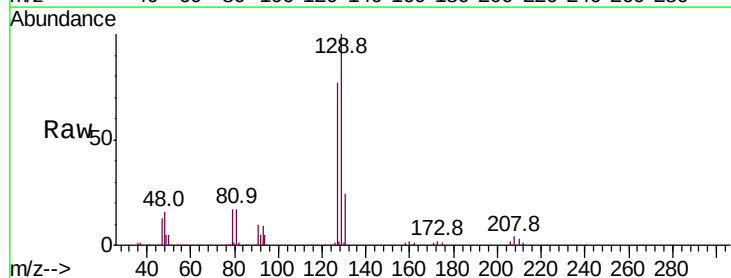


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

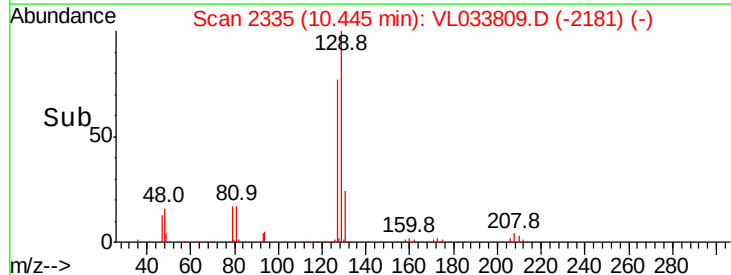
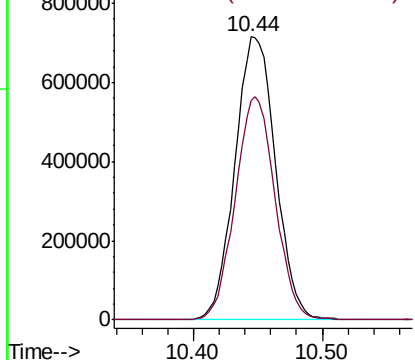


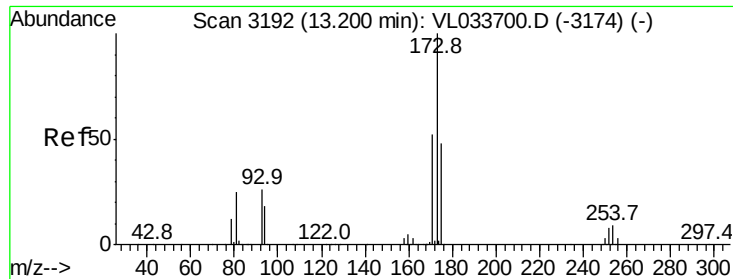
#48
 Dibromochloromethane
 Concen: 9.455 ppbv
 RT: 10.44 min Scan# 2335
 Delta R.T. -0.01 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Tgt Ion	129	Resp	1570297
Ion Ratio	Lower	Upper	
129	100		
127	77.5	38.6	116.0



Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.235 ppbv

RT: 13.20 min Scan# 3192

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 1430169

Ion Ratio Lower Upper

173 100

175 49.4 38.6 58.0

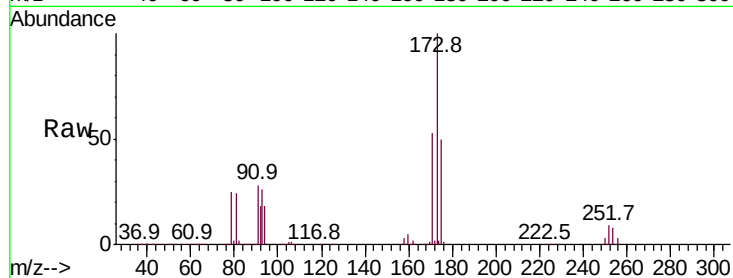
171 52.7 41.5 62.3

Manual Integrations

APPROVED

apatel

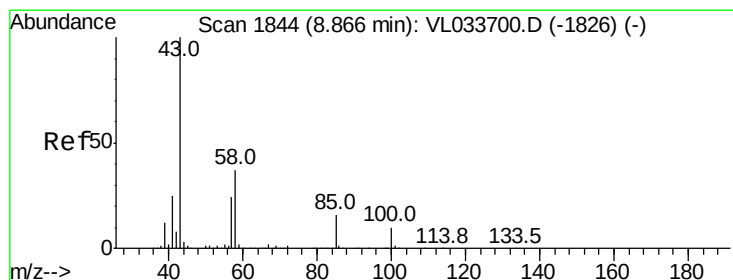
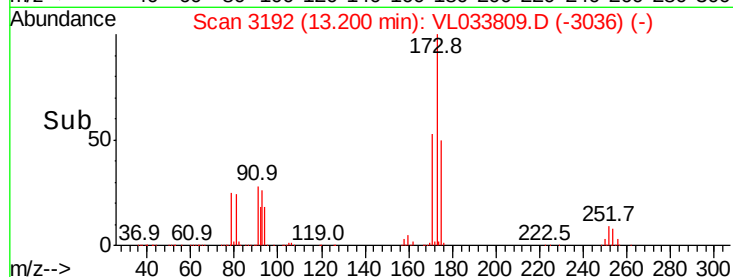
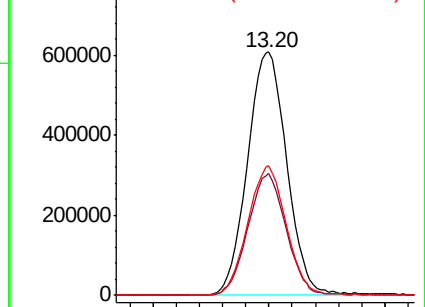
5/29/2019 12:40:28 PM



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.256 ppbv

RT: 8.86 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VL033809.D

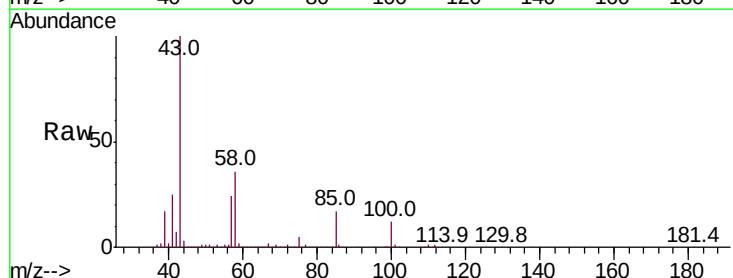
Acq: 28 May 2019 17:42

Tgt Ion: 43 Resp: 2195358

Ion Ratio Lower Upper

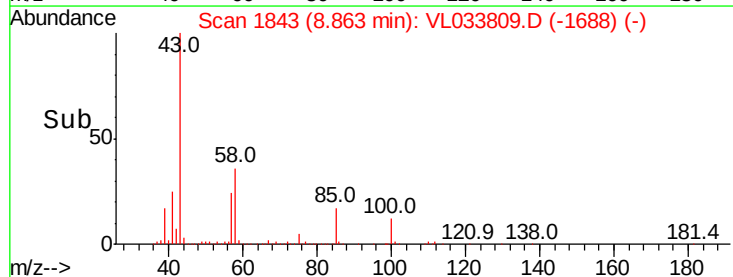
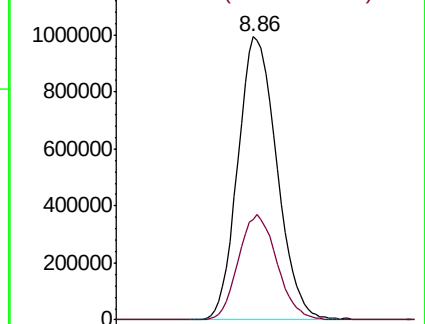
43 100

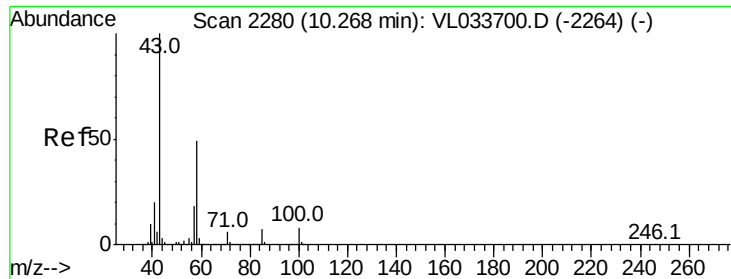
58 36.8 28.6 43.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 9.838 ppbv

RT: 10.26 min Scan# 2279

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1821069

Ion Ratio Lower Upper

43 100

58 49.2 38.7 58.1

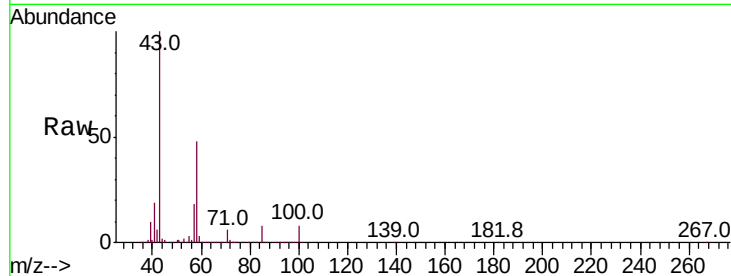
98 0.2 0.2 0.4#

Manual Integrations

APPROVED

apatel

5/29/2019 12:40:28 PM

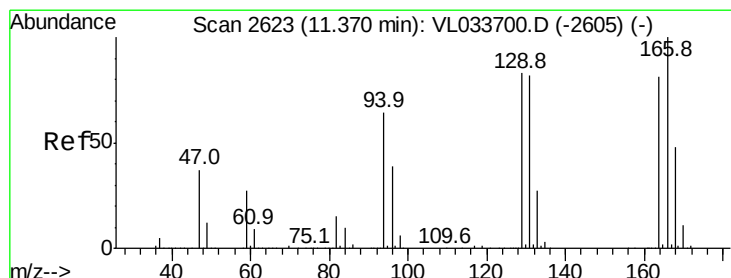
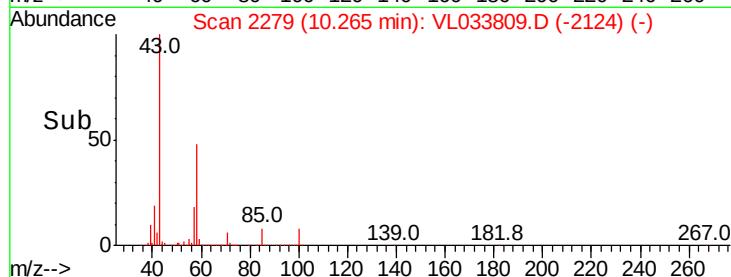
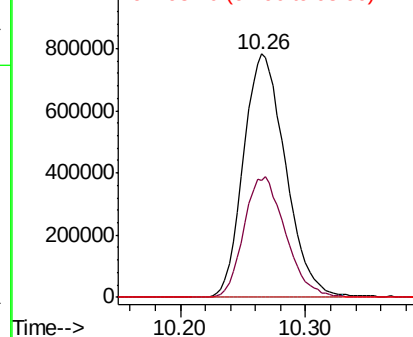


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 10.392 ppbv

RT: 11.37 min Scan# 2623

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Tgt Ion: 164 Resp: 826679

Ion Ratio Lower Upper

164 100

166 125.4 98.9 148.3

129 99.1 81.8 122.6

131 95.1 81.1 121.7

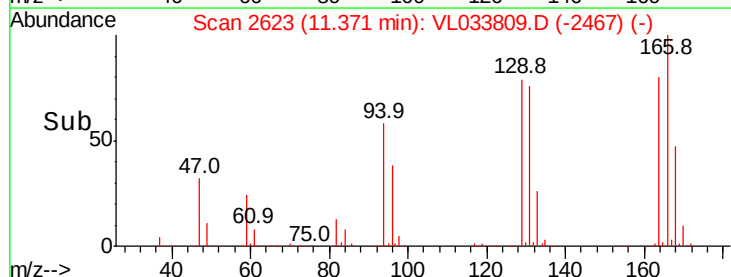
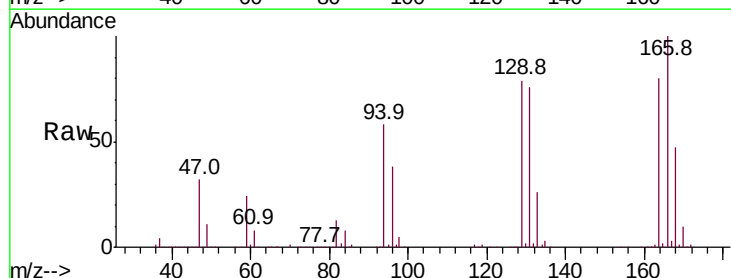
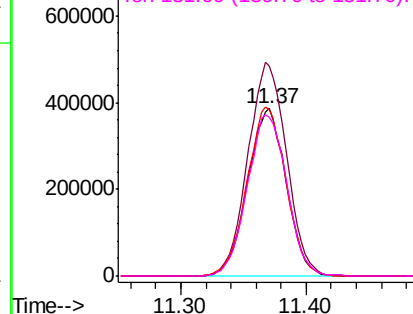
Abundance

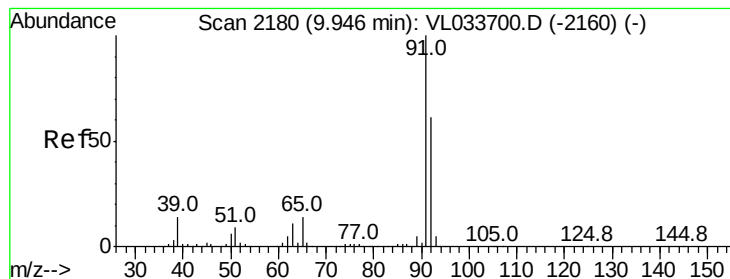
Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 10.433 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2546624

Ion Ratio Lower Upper

91 100

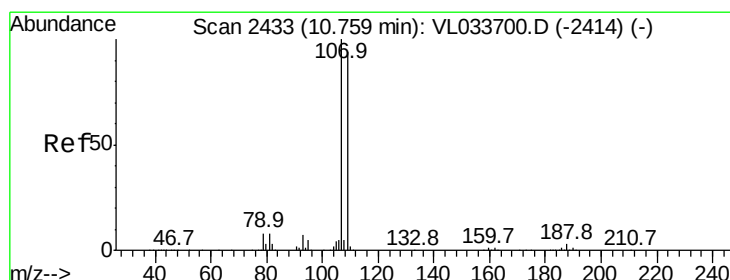
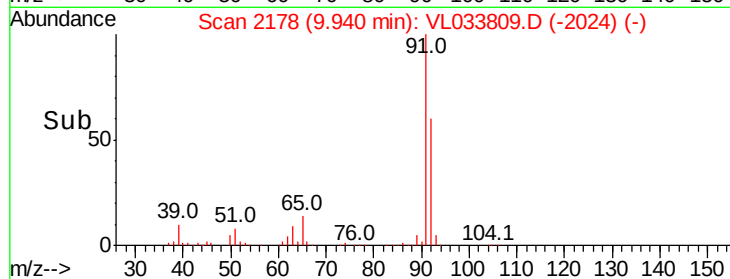
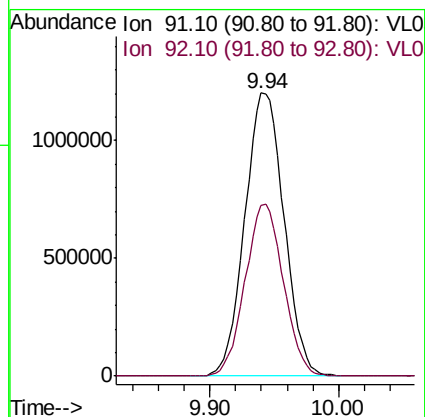
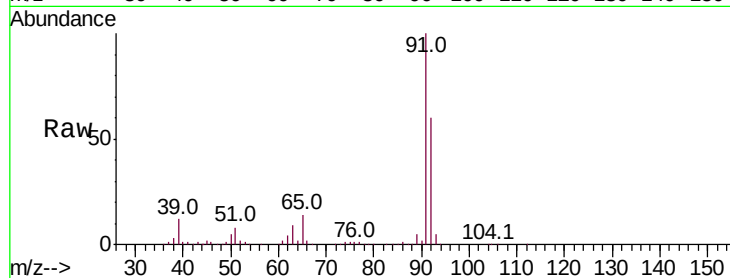
92 59.5 47.6 71.4

Manual Integrations

APPROVED

apatel

5/29/2019 12:40:28 PM



#54

1,2-Dibromoethane

Concen: 9.559 ppbv

RT: 10.75 min Scan# 2431

Delta R.T. -0.01 min

Lab File: VL033809.D

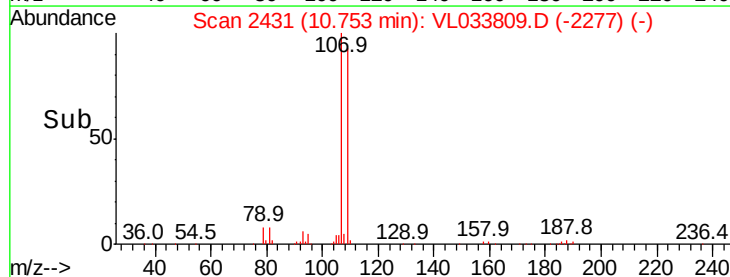
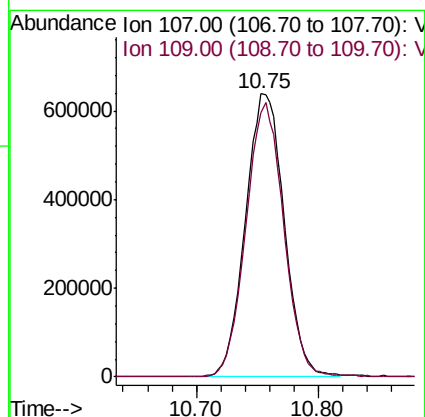
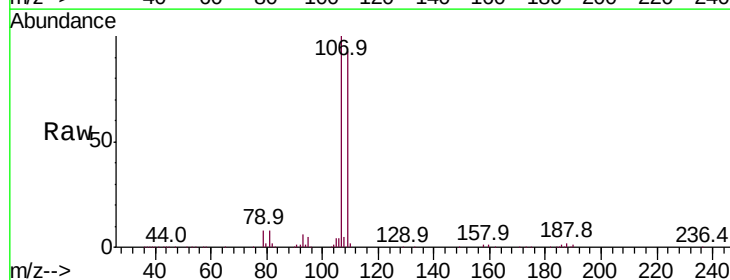
Acq: 28 May 2019 17:42

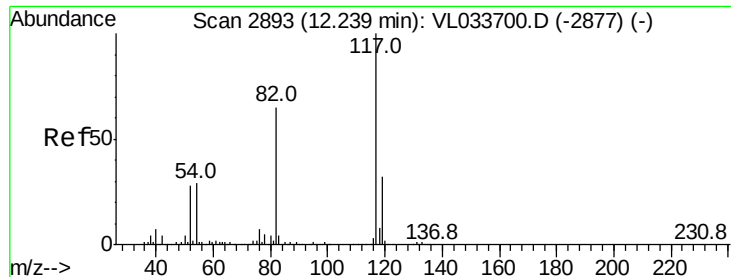
Tgt Ion:107 Resp: 1398260

Ion Ratio Lower Upper

107 100

109 93.1 75.2 112.8





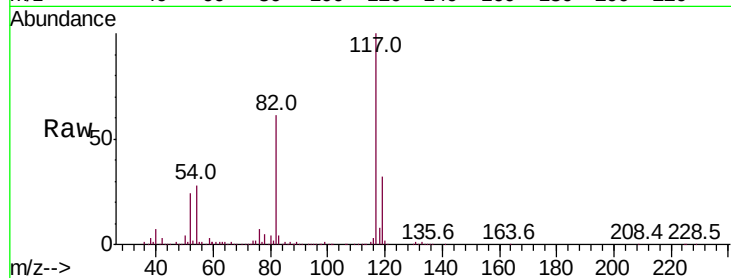
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.23 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL033809.D
Acq: 28 May 2019 17:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.1	49.4	74.0
119	56.3	24.9	37.3#

Manual Integrations
APPROVED

apatel
5/29/2019 12:40:28 PM

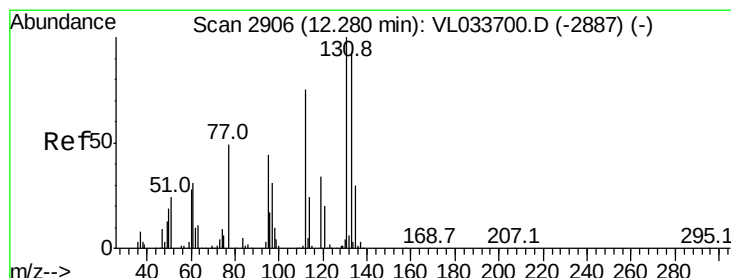
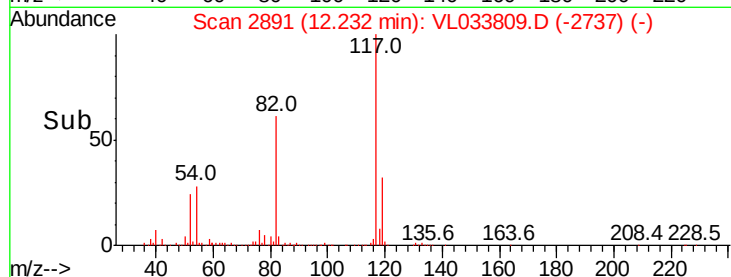
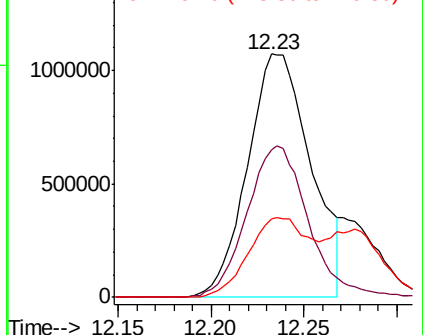


Abundance

Ion 117.10 (116.80 to 117.80): V

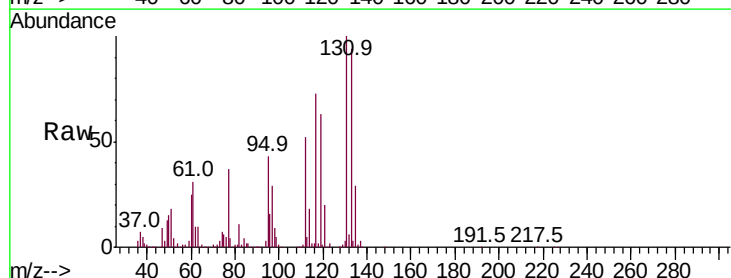
Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56
1,1,1,2-Tetrachloroethane
Concen: 9.047 ppbv
RT: 12.27 min Scan# 2904
Delta R.T. -0.01 min
Lab File: VL033809.D
Acq: 28 May 2019 17:42

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.8	76.6	114.8
119	58.6	49.0	73.4

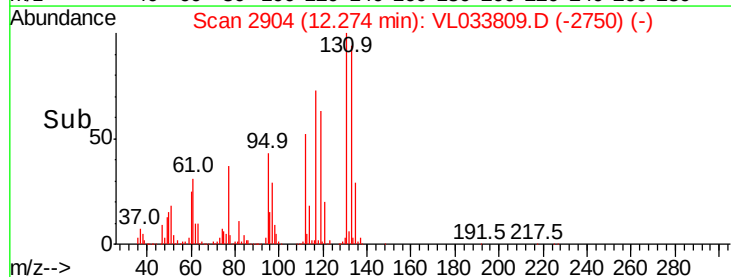
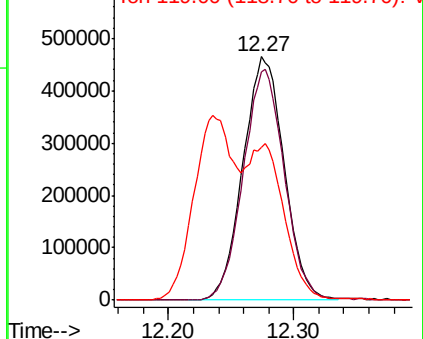


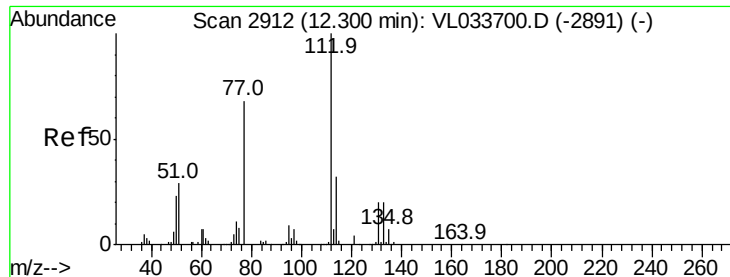
Abundance

Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





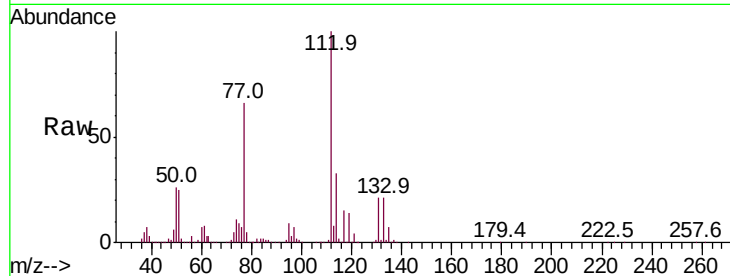
#57
Chlorobenzene
Concen: 9.139 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. -0.00 min
Lab File: VL033809.D
Acq: 28 May 2019 17:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

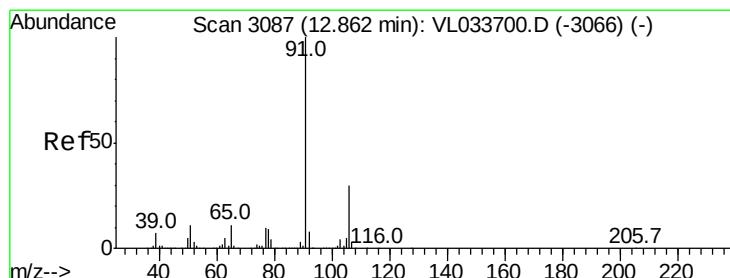
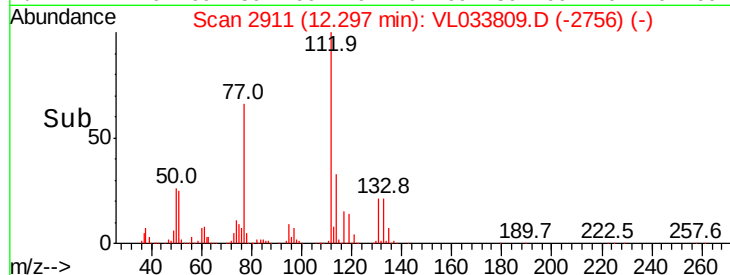
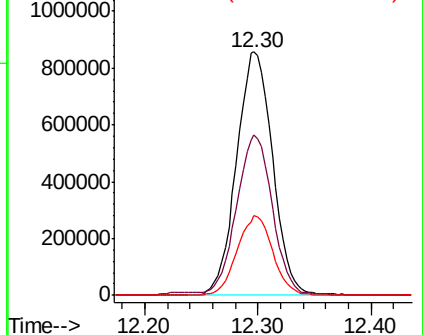
Tot Ion	Ratio	Lower	Upper
112	100		
77	65.4	55.4	83.0
114	32.7	29.3	35.8

Manual Integrations
APPROVED

apatel
5/29/2019 12:40:28 PM

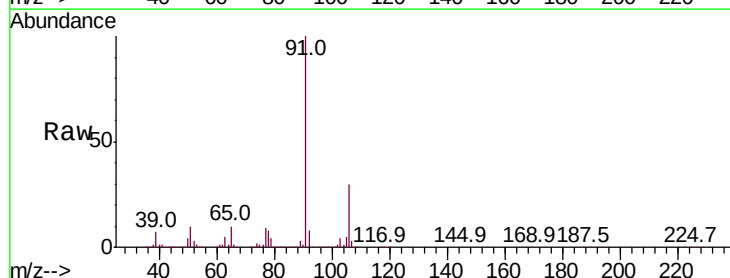


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

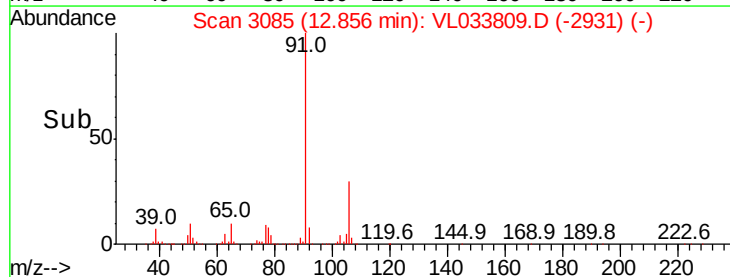
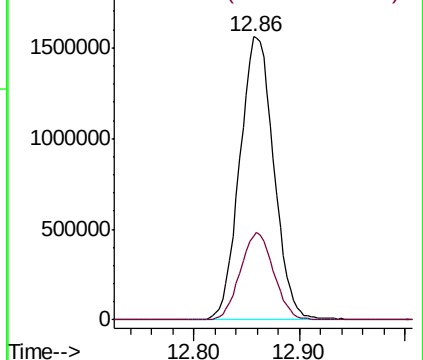


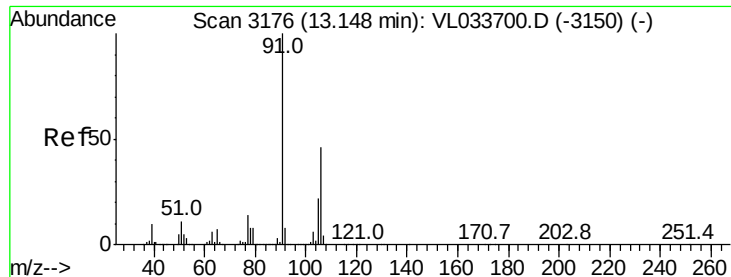
#58
Ethyl Benzene
Concen: 10.448 ppbv
RT: 12.86 min Scan# 3085
Delta R.T. -0.01 min
Lab File: VL033809.D
Acq: 28 May 2019 17:42

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.7	23.9	35.9



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 19.558 ppbv m

RT: 13.15 min Scan# 3175

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 5744567

Ion Ratio Lower Upper

91 100

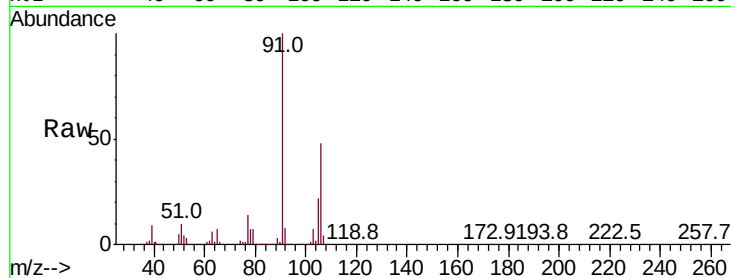
106 46.3 35.8 53.6

Manual Integrations

APPROVED

apatel

5/29/2019 12:40:28 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.15

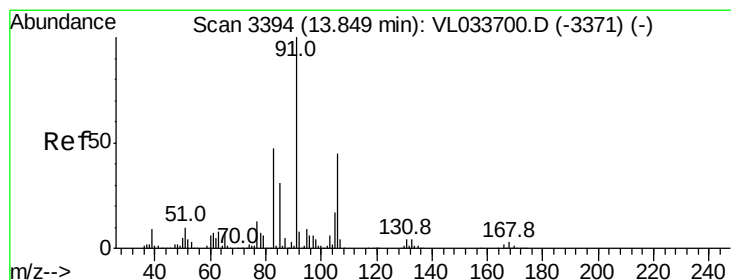
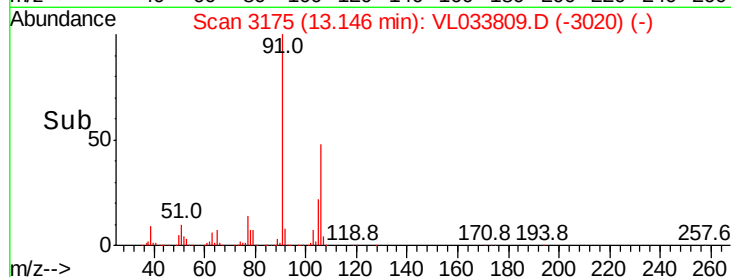
1500000

1000000

500000

0

Time--> 13.00 13.10 13.20



#60

o-Xylene

Concen: 9.465 ppbv

RT: 13.85 min Scan# 3393

Delta R.T. -0.00 min

Lab File: VL033809.D

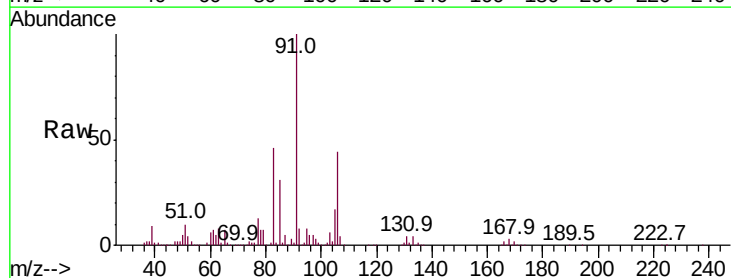
Acq: 28 May 2019 17:42

Tgt Ion: 91 Resp: 2802437

Ion Ratio Lower Upper

91 100

106 45.0 21.6 64.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

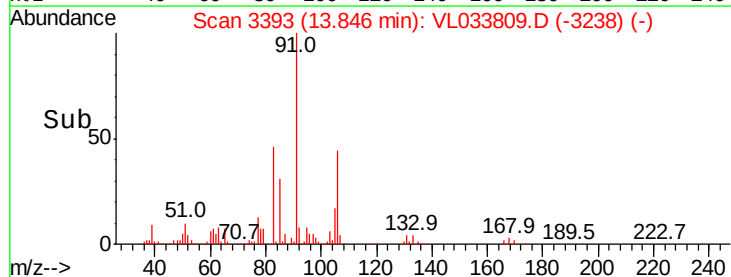
13.85

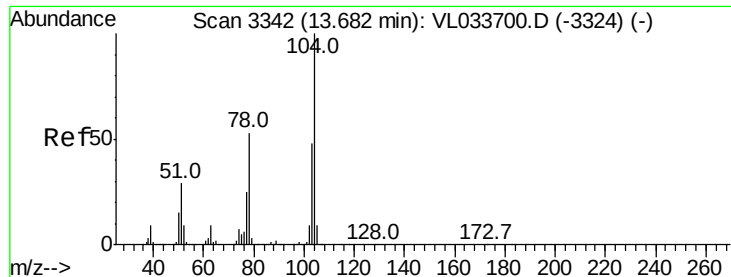
1000000

500000

0

Time--> 13.80 13.90





#61

Stvrene

Concen: 11.073 ppbv

RT: 13.68 min Scan# 3341

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 2207321

Ion Ratio Lower Upper

104 100

78 50.3 42.6 64.0

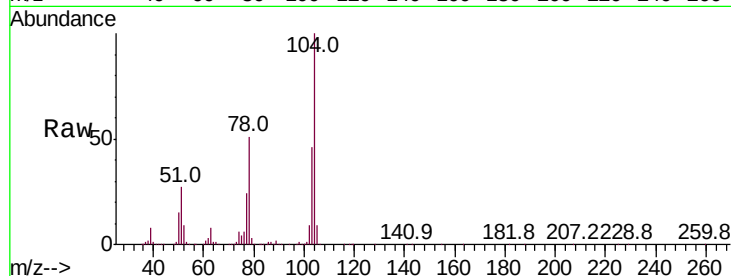
103 47.0 37.8 56.6

Manual Integrations

APPROVED

apatel

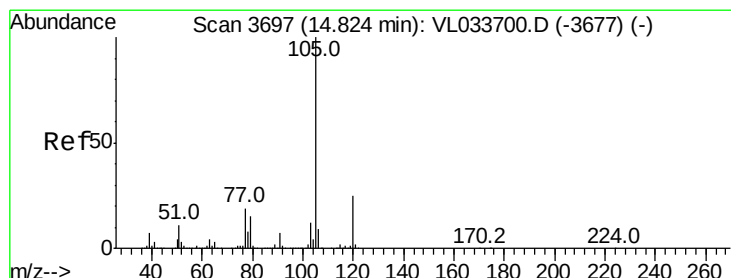
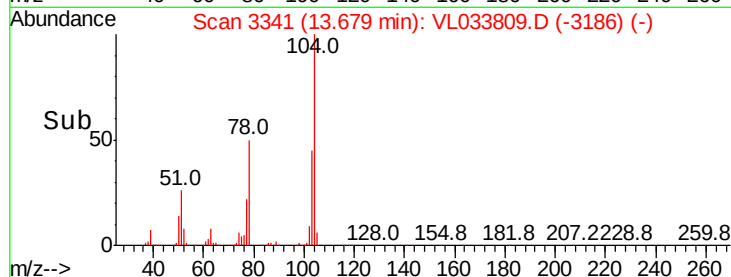
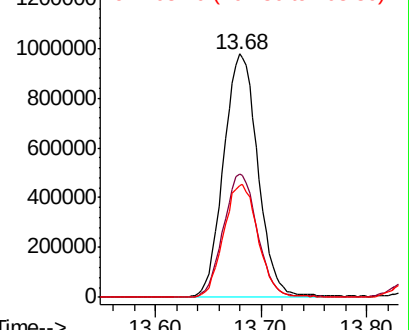
5/29/2019 12:40:28 PM



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: 9.550 ppbv

RT: 14.82 min Scan# 3696

Delta R.T. -0.00 min

Lab File: VL033809.D

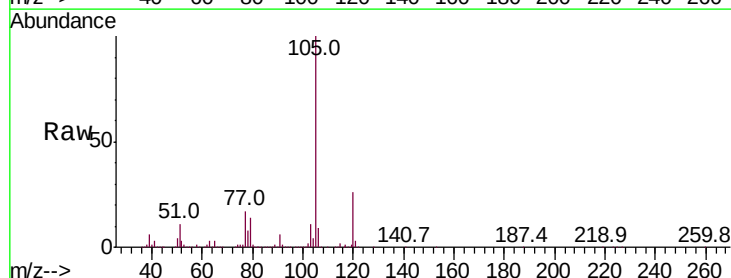
Acq: 28 May 2019 17:42

Tgt Ion:105 Resp: 3807992

Ion Ratio Lower Upper

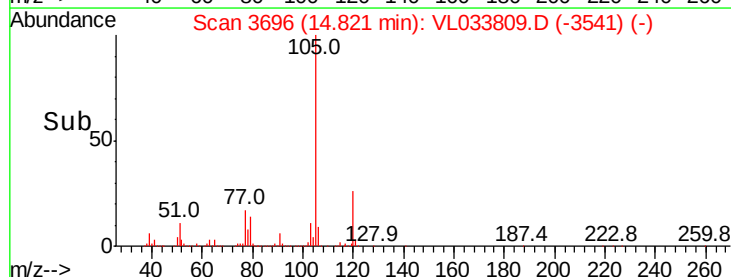
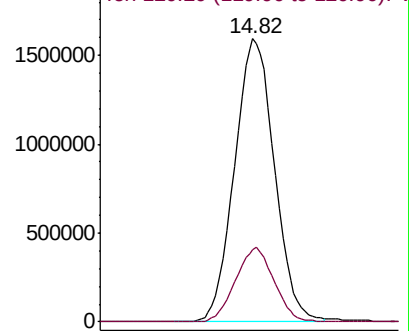
105 100

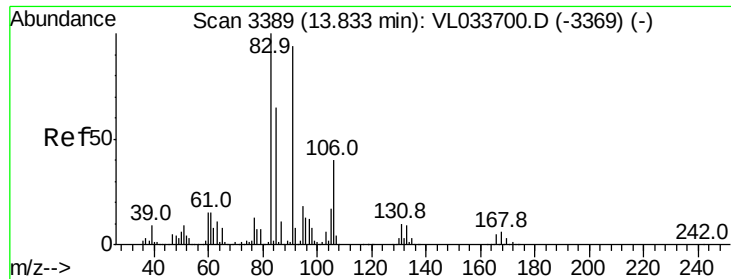
120 25.8 20.1 30.1



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: 9.033 ppbv

RT: 13.83 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 1944932

Ion Ratio Lower Upper

83 100

131 9.6 4.8 14.3

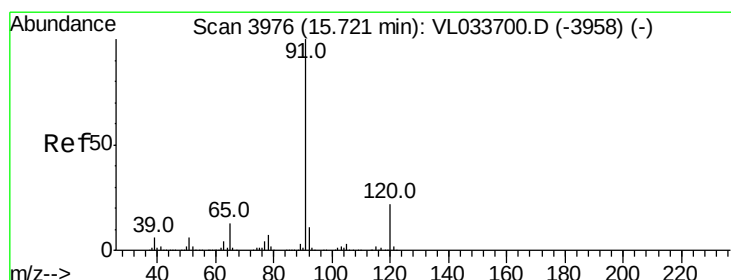
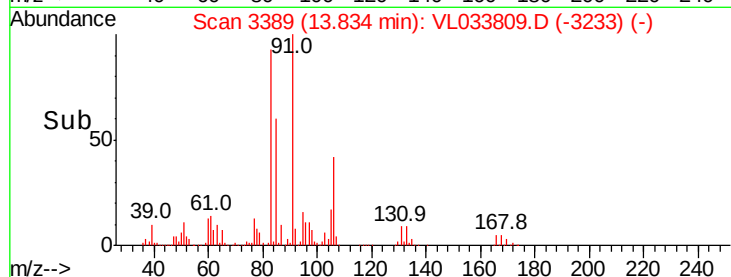
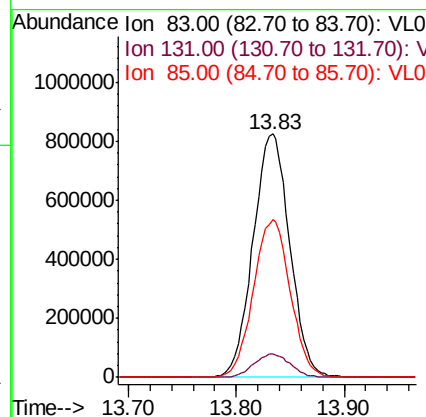
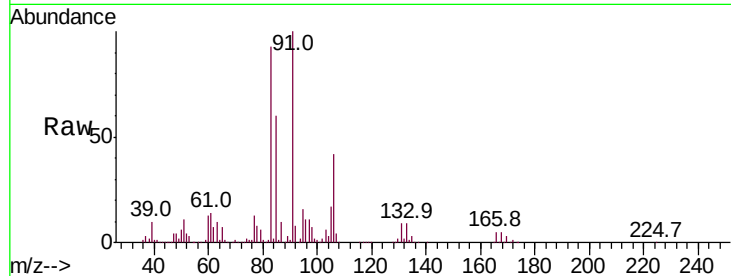
85 65.4 32.3 96.9

Manual Integrations

APPROVED

apatel

5/29/2019 12:40:28 PM



#64

n-propylbenzene

Concen: 9.721 ppbv

RT: 15.72 min Scan# 3975

Delta R.T. -0.00 min

Lab File: VL033809.D

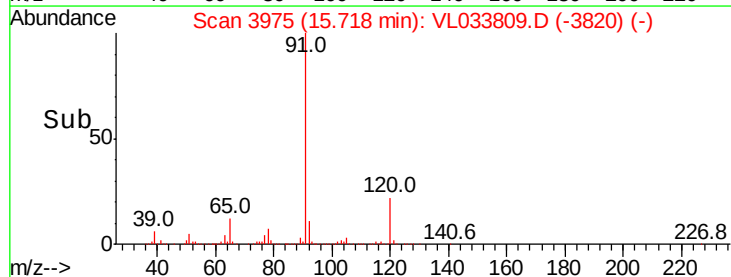
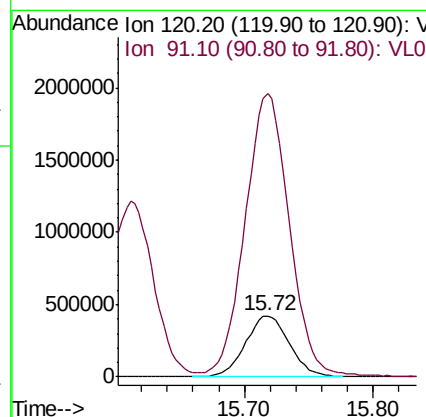
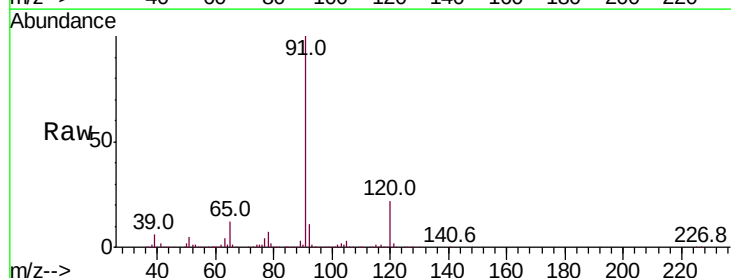
Acq: 28 May 2019 17:42

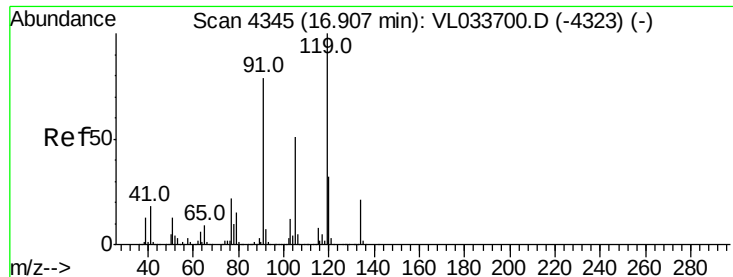
Tgt Ion: 120 Resp: 1002612

Ion Ratio Lower Upper

120 100

91 468.1 379.1 568.7





#65

tert-Butylbenzene

Concen: 9.468 ppbv

RT: 16.90 min Scan# 4344

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 3447134

Ion Ratio Lower Upper

119 100

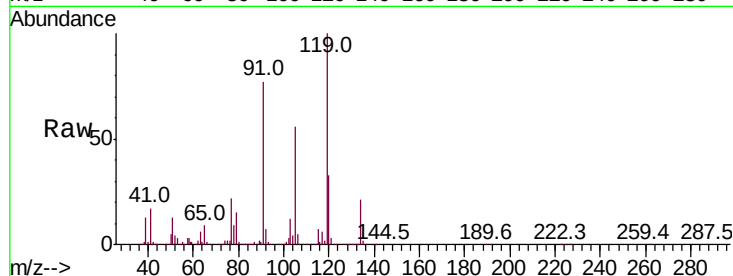
91 79.6 65.3 97.9

134 19.7 15.7 23.5

Manual Integrations
APPROVED

apatel

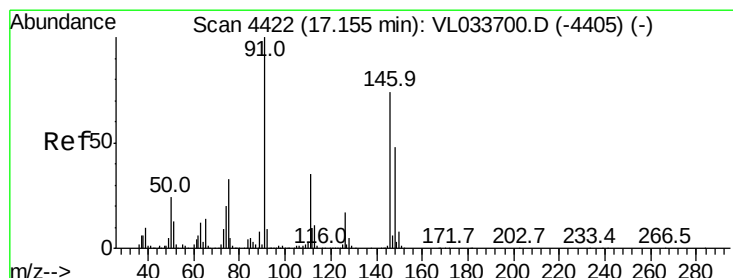
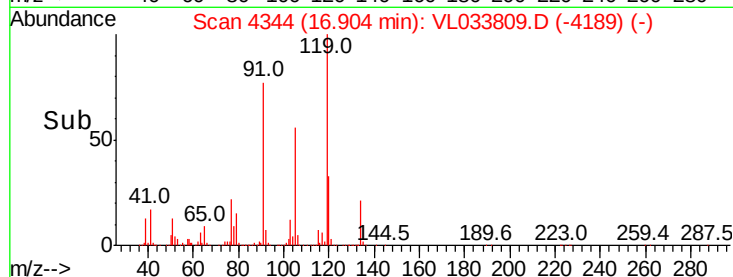
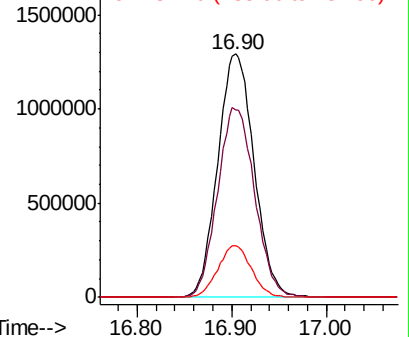
5/29/2019 12:40:28 PM



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: 10.148 ppbv

RT: 17.15 min Scan# 4421

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

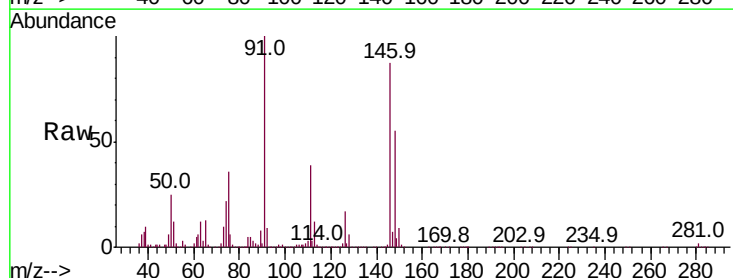
Tgt Ion: 91 Resp: 1759715

Ion Ratio Lower Upper

91 100

126 17.4 13.5 20.3

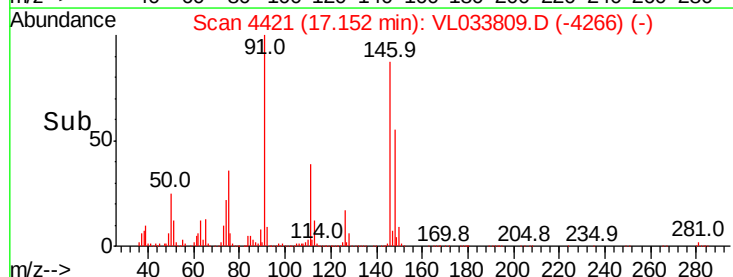
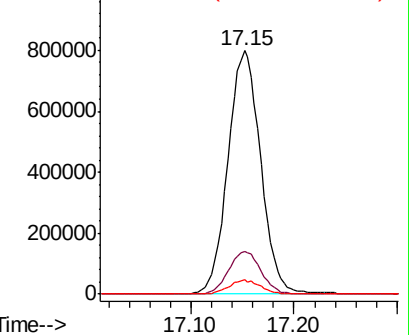
128 5.6 4.3 6.5

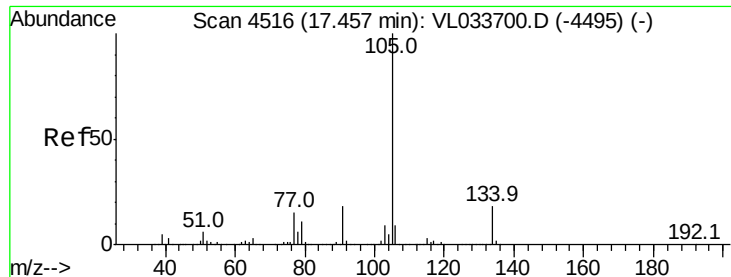


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.535 ppbv

RT: 17.45 min Scan# 4515

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 4858593

Ion Ratio Lower Upper

105 100

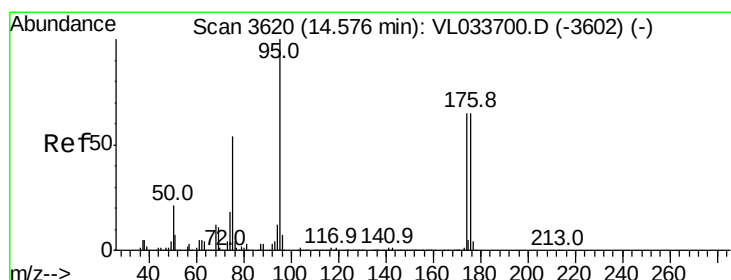
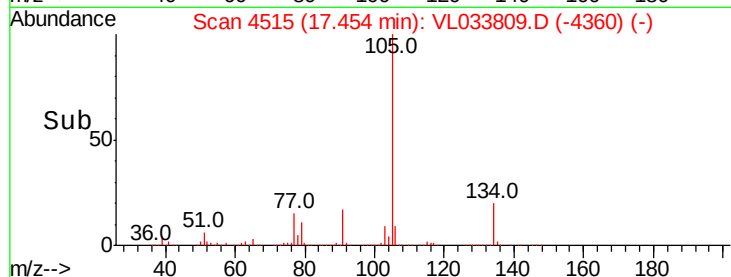
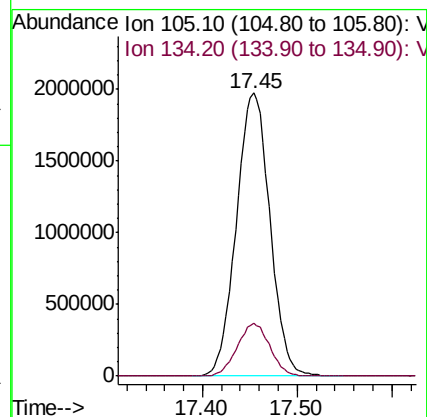
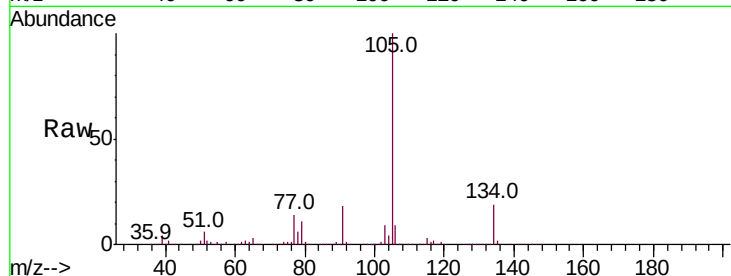
134 18.3 14.6 22.0

Manual Integrations

APPROVED

apatel

5/29/2019 12:40:28 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 9.252 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

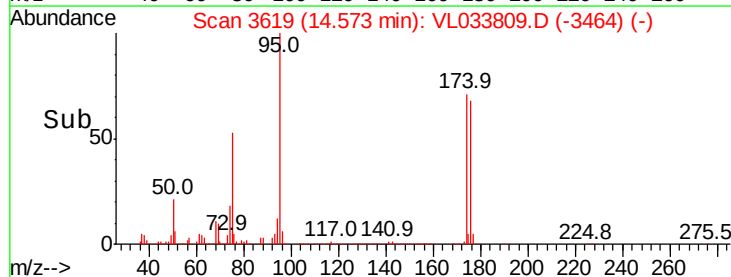
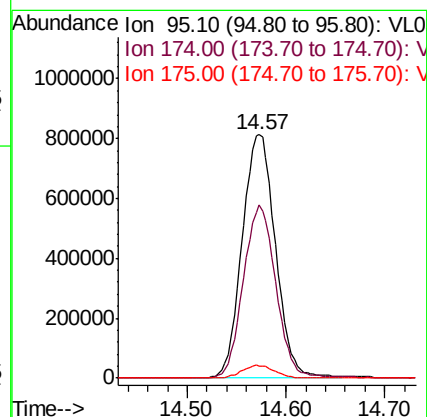
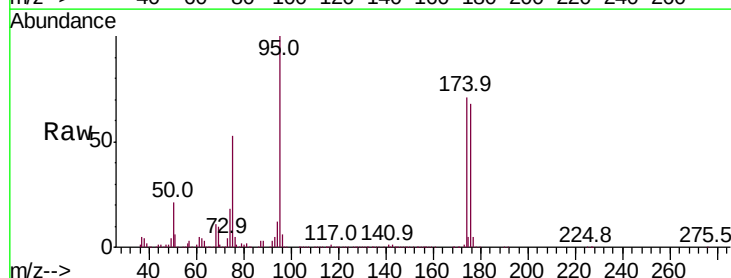
Tgt Ion: 95 Resp: 1903218

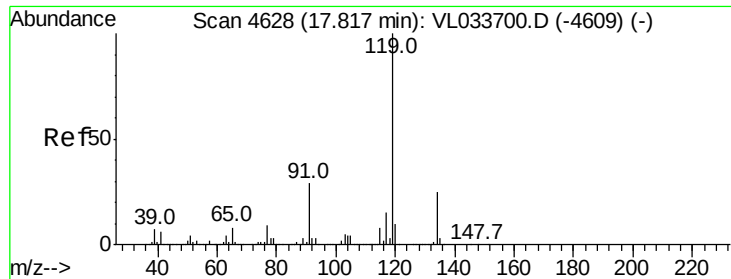
Ion Ratio Lower Upper

95 100

174 69.8 53.9 80.9

175 5.1 3.8 5.8





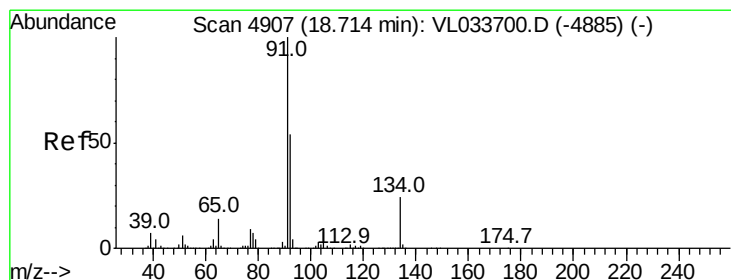
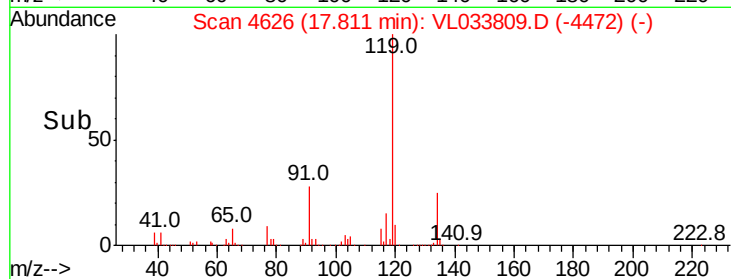
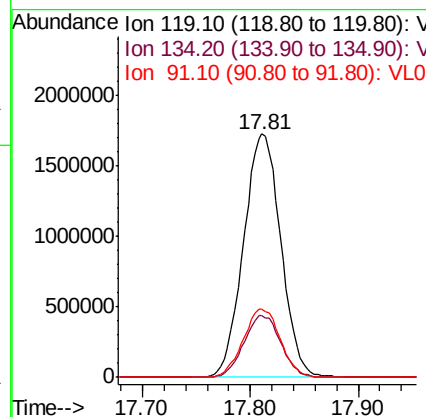
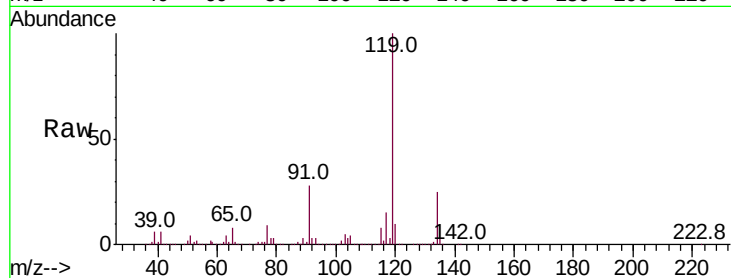
#69
 p-Isopropyltoluene
 Concen: 9.831 ppbv
 RT: 17.81 min Scan# 4626
 Delta R.T. -0.01 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.3	20.3	30.5
91	27.9	23.1	34.7

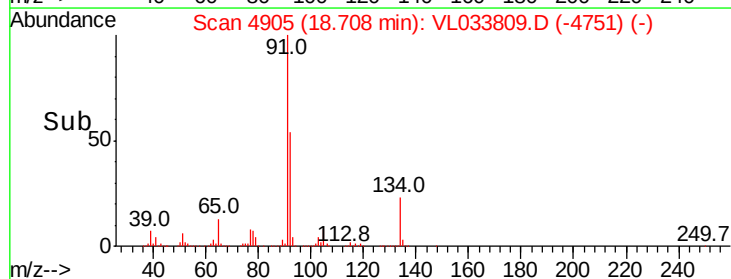
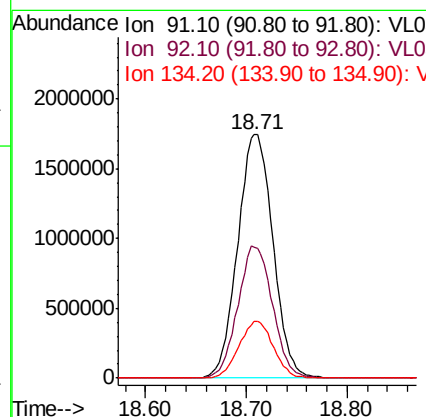
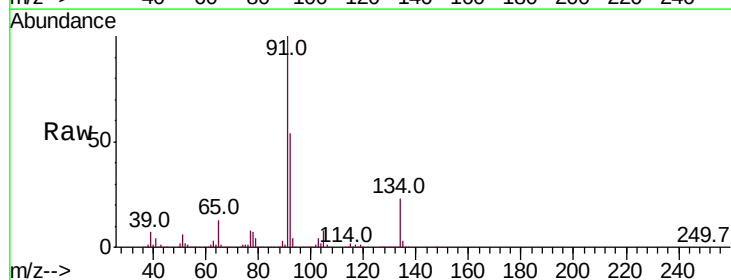
Manual Integrations
 APPROVED

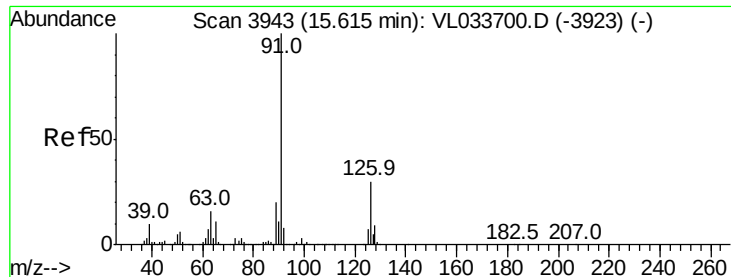
apatel
 5/29/2019 12:40:28 PM



#70
 n-Butylbenzene
 Concen: 9.355 ppbv
 RT: 18.71 min Scan# 4905
 Delta R.T. -0.01 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.4	42.6	63.8
134	22.8	18.1	27.1





#71

2-Chlorotoluene

Concen: 9.673 ppbv

RT: 15.61 min Scan# 3942

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2861728

Ion Ratio Lower Upper

91 100

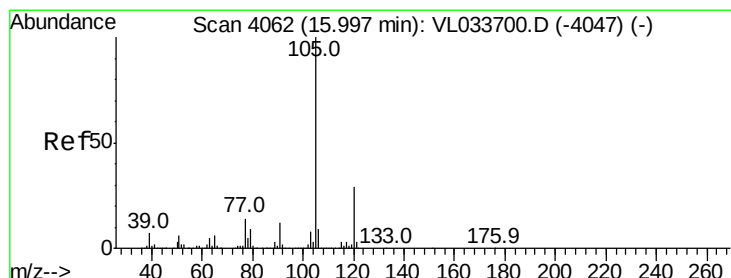
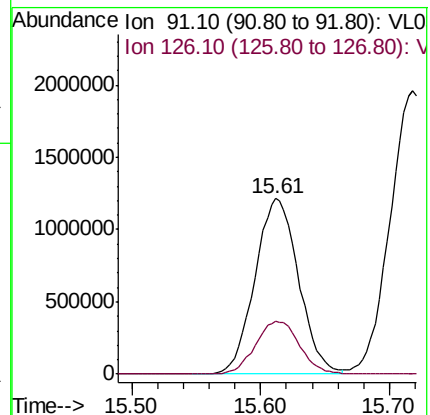
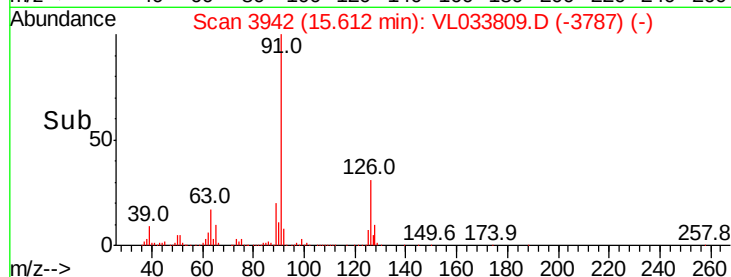
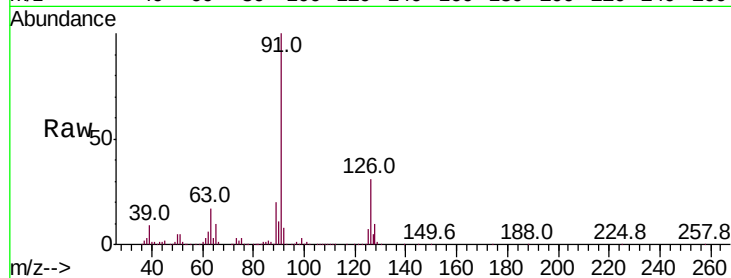
126 30.9 12.0 47.8

Manual Integrations

APPROVED

apatel

5/29/2019 12:40:28 PM



#72

4-Ethyltoluene

Concen: 9.824 ppbv

RT: 15.99 min Scan# 4061

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Tgt Ion:105 Resp: 3325773

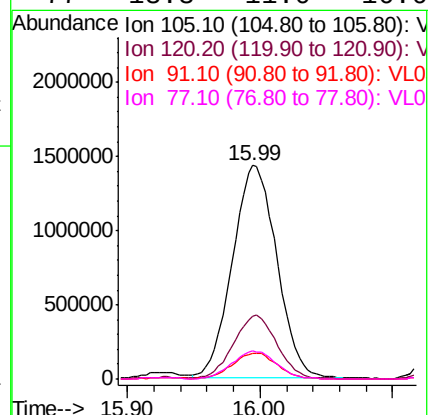
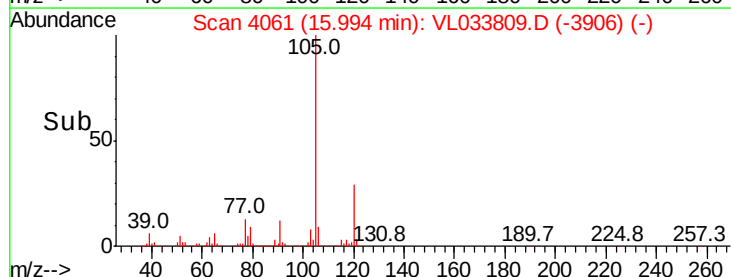
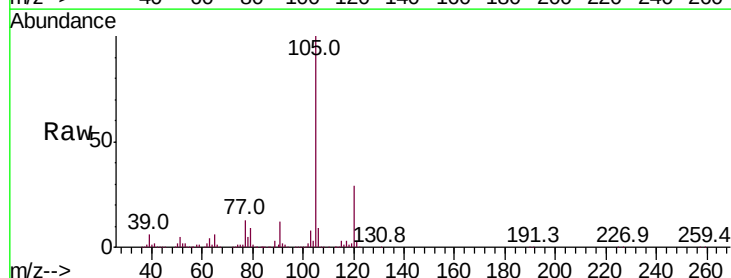
Ion Ratio Lower Upper

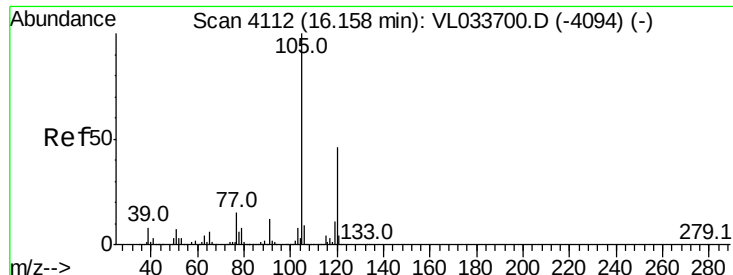
105 100

120 29.7 23.1 34.7

91 12.4 10.4 15.6

77 13.3 11.0 16.6





#73

1,3,5-Trimethylbenzene

Concen: 9.625 ppbv

RT: 16.16 min Scan# 4111

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 3179335

Ion Ratio Lower Upper

105 100

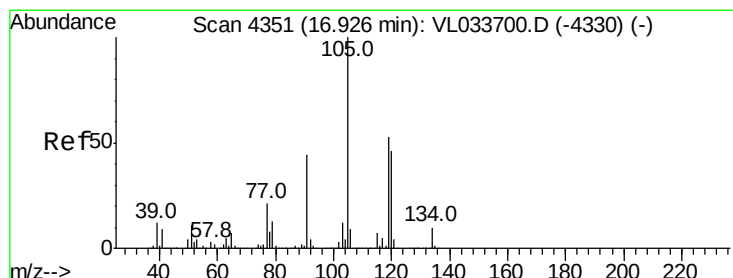
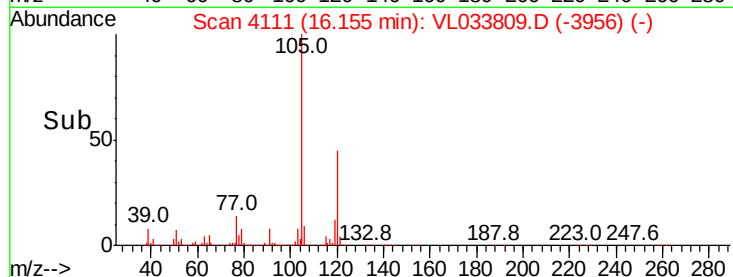
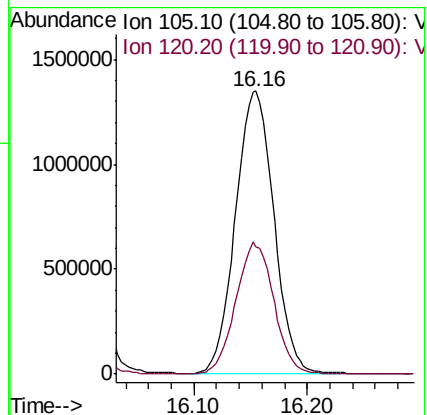
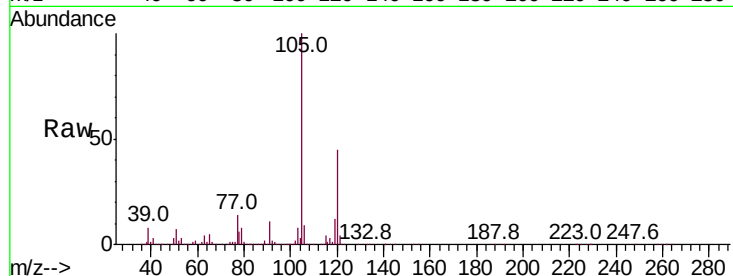
120 45.1 37.0 55.4

Manual Integrations

APPROVED

apatel

5/29/2019 12:40:28 PM



#74

1,2,4-Trimethylbenzene

Concen: 9.208 ppbv

RT: 16.92 min Scan# 4349

Delta R.T. -0.01 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Tgt Ion:105 Resp: 3310264

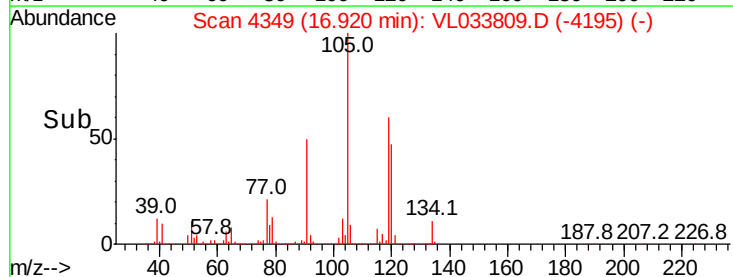
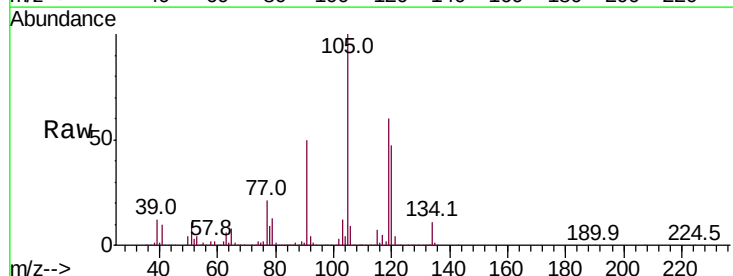
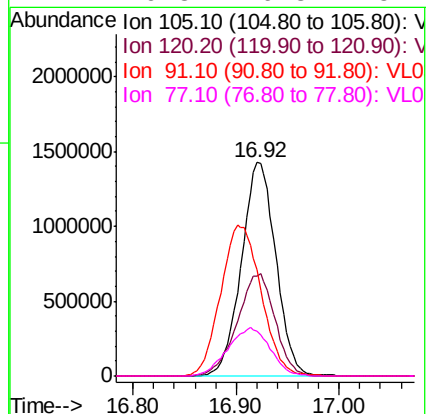
Ion Ratio Lower Upper

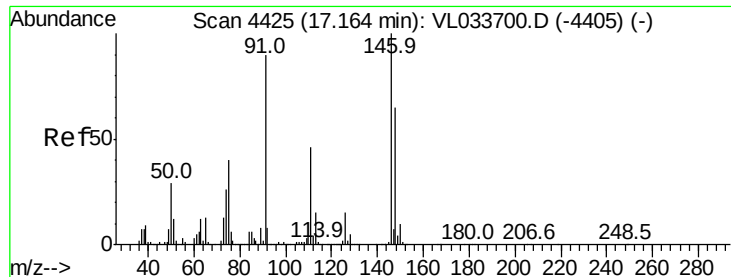
105 100

120 47.0 36.8 55.2

91 49.4 35.4 53.0

77 20.8 16.8 25.2





#75

1,3-Dichlorobenzene

Concen: 8.963 ppbv

RT: 17.16 min Scan# 4423

Delta R.T. -0.01 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1974483

Ion Ratio Lower Upper

146 100

111 43.9 22.9 68.8

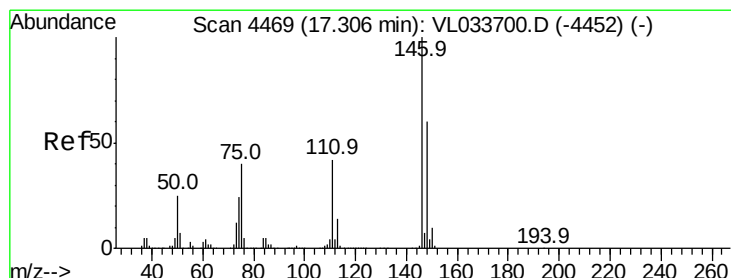
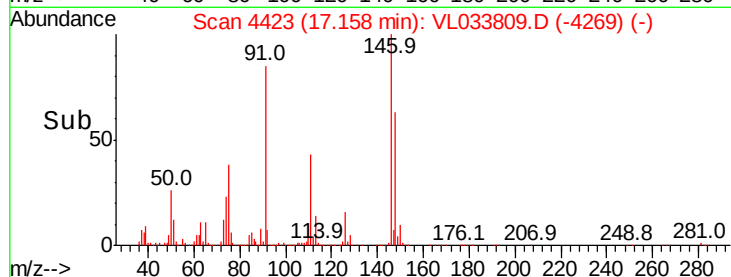
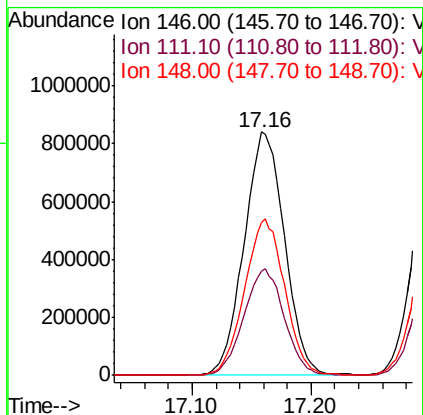
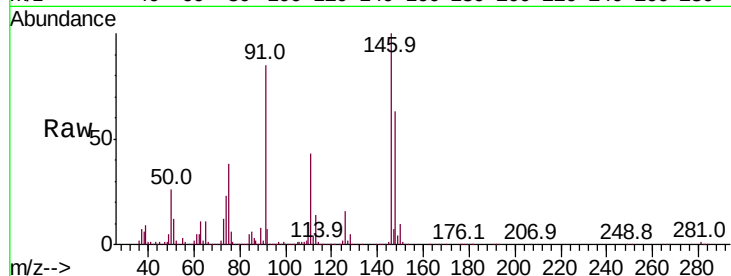
148 63.8 32.0 96.2

Manual Integrations

APPROVED

apatel

5/29/2019 12:40:28 PM



#76

1,4-Dichlorobenzene

Concen: 9.241 ppbv

RT: 17.30 min Scan# 4468

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

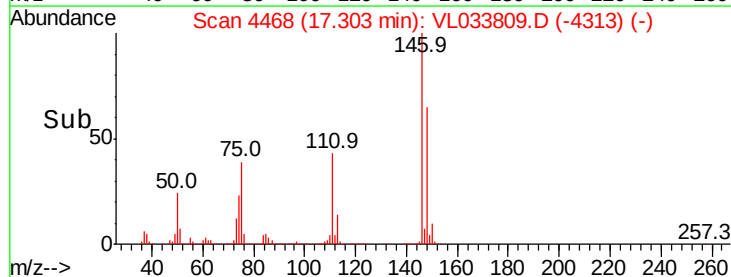
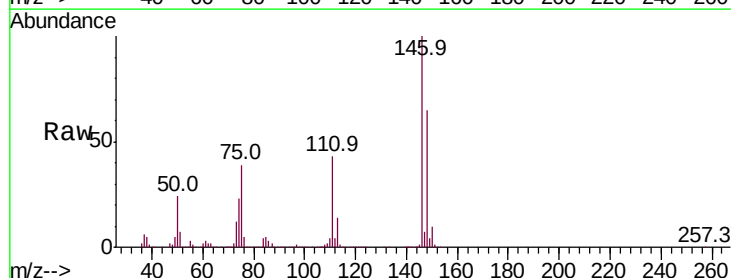
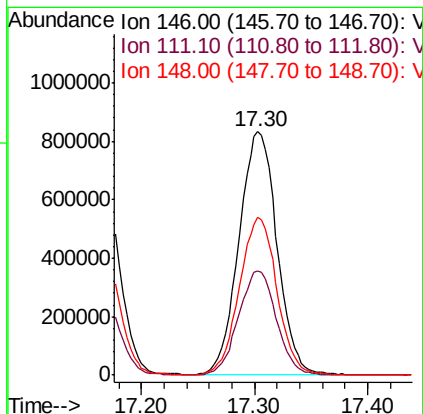
Tgt Ion:146 Resp: 1934856

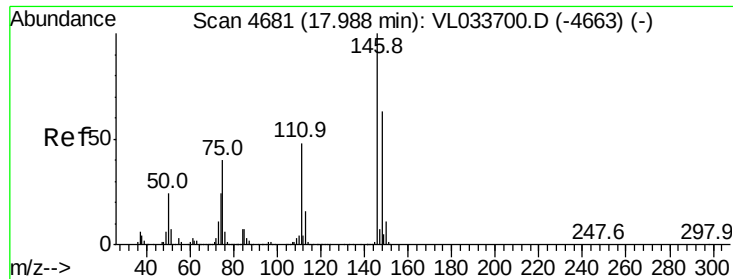
Ion Ratio Lower Upper

146 100

111 43.1 21.9 65.8

148 64.6 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 9.277 ppbv

RT: 17.98 min Scan# 4680

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1920173

Ion Ratio Lower Upper

146 100

111 45.8 23.5 70.5

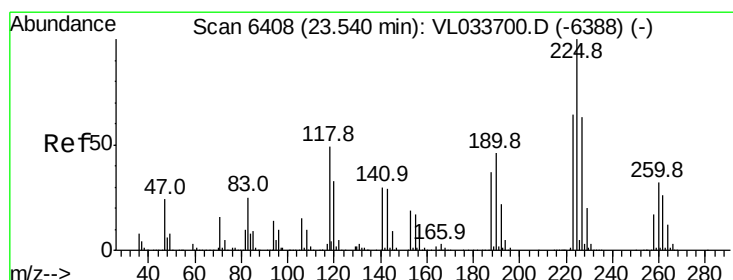
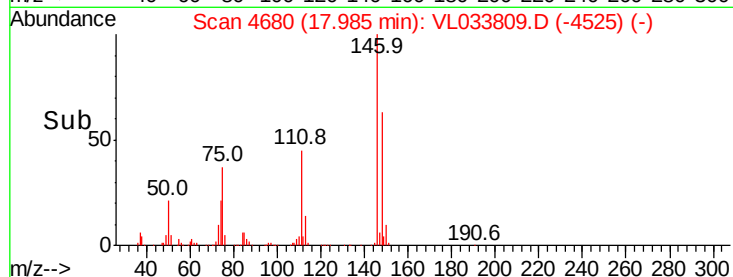
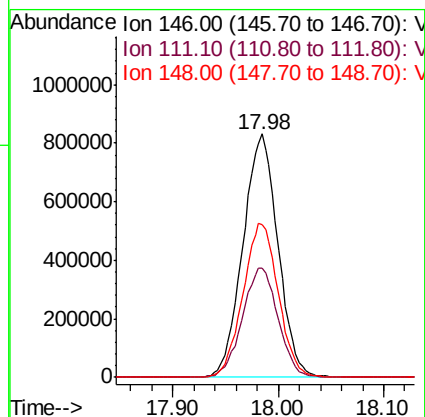
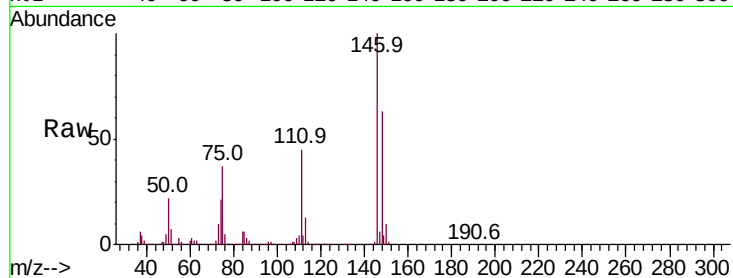
148 63.8 32.1 96.3

Manual Integrations

APPROVED

apatel

5/29/2019 12:40:28 PM



#78

Hexachloro-1,3-Butadiene

Concen: 8.695 ppbv

RT: 23.53 min Scan# 6406

Delta R.T. -0.01 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

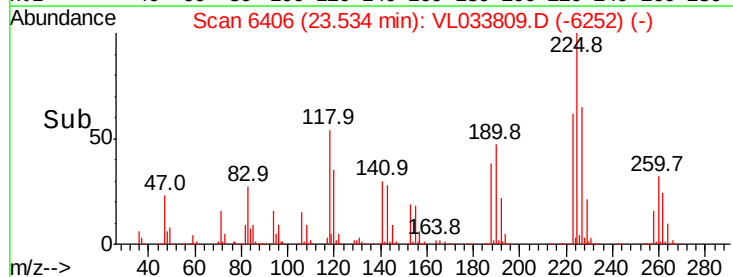
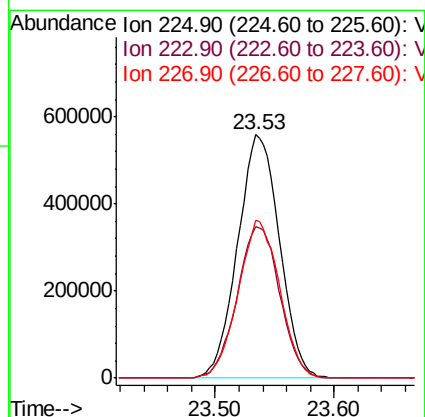
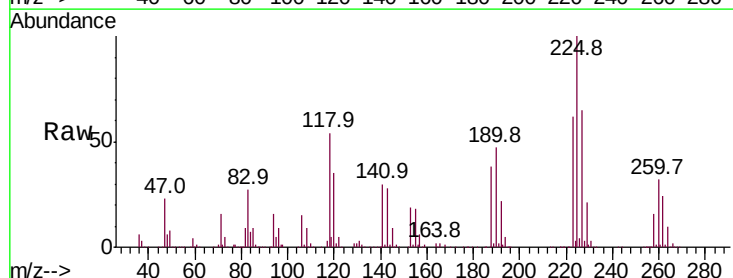
Tgt Ion:225 Resp: 1360816

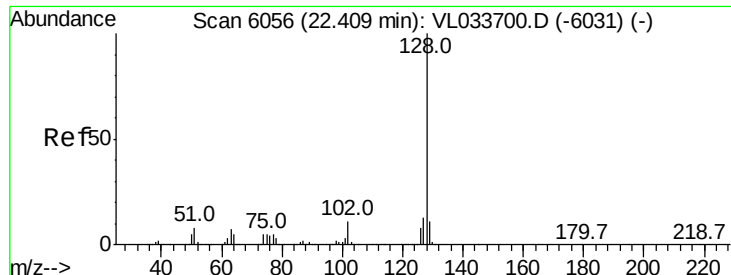
Ion Ratio Lower Upper

225 100

223 63.4 50.2 75.4

227 64.1 50.7 76.1





#79

Naphthalene

Concen: 8.132 ppbv

RT: 22.40 min Scan# 6053

Delta R.T. -0.01 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:128 Resp: 2715356

Ion Ratio Lower Upper

128 100

127 12.6 10.6 16.0

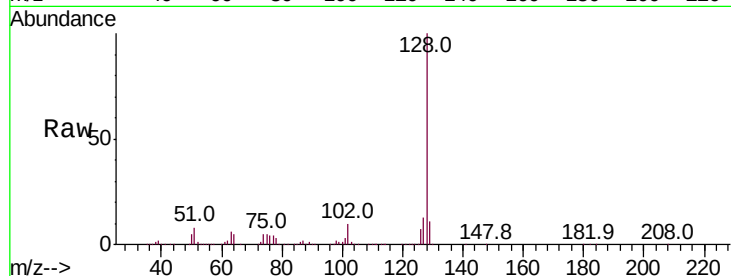
129 10.9 8.9 13.3

Manual Integrations

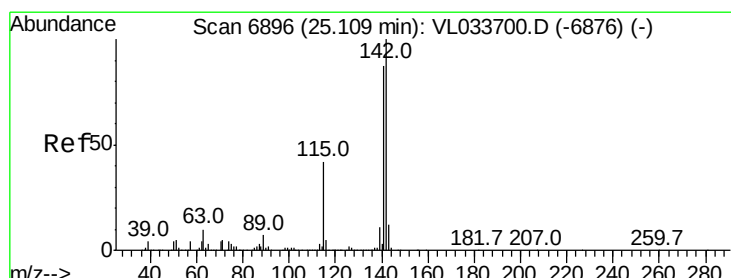
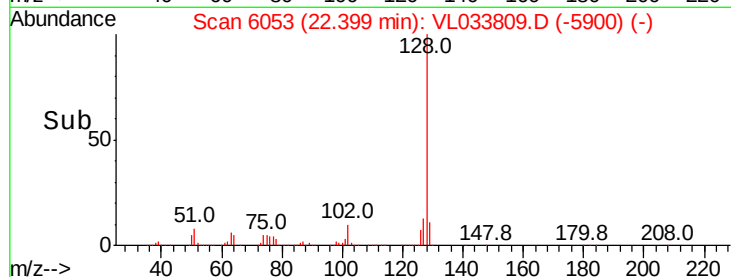
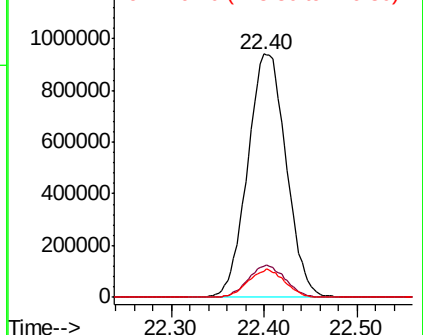
APPROVED

apatel

5/29/2019 12:40:28 PM



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: 8.449 ppbv

RT: 25.11 min Scan# 6895

Delta R.T. -0.00 min

Lab File: VL033809.D

Acq: 28 May 2019 17:42

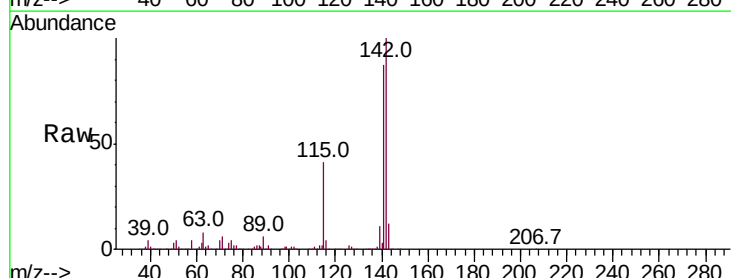
Tgt Ion:142 Resp: 1071897

Ion Ratio Lower Upper

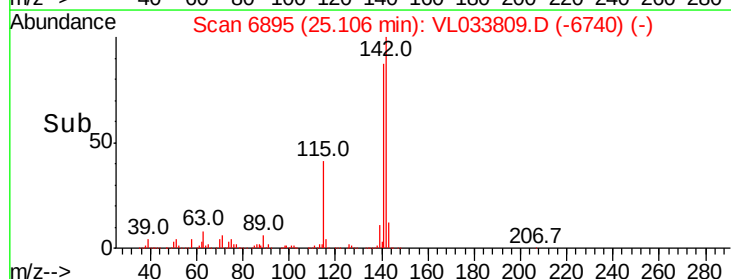
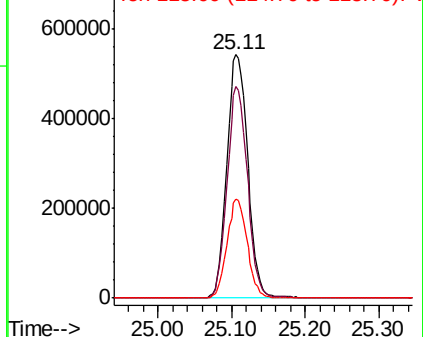
142 100

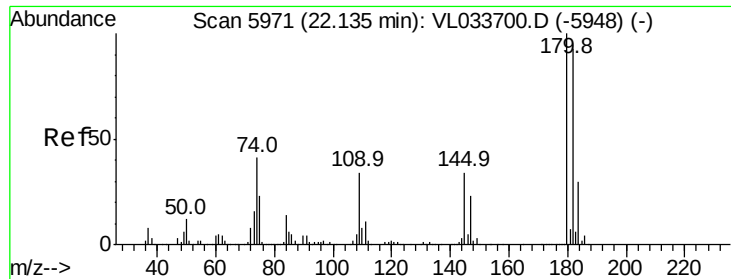
141 85.0 67.2 100.8

115 39.4 34.1 51.1



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: 7.998 ppbv
 RT: 22.13 min Scan# 5968
 Delta R.T. -0.01 min
 Lab File: VL033809.D
 Acq: 28 May 2019 17:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.1	114.1
184	30.5	24.6	37.0

Manual Integrations
 APPROVED

apatel
 5/29/2019 12:40:28 PM

