

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052819\
 Data File : VL033814.D
 Acq On : 28 May 2019 21:53
 Operator : SY/AP
 Sample : VL0528ABS02DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0528ABS02DUP

Manual Integrations
 APPROVED

apatel
 5/29/2019 12:40:43 PM

Quant Time: May 29 05:49:12 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	868496	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2167541	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2284255m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1695744	9.16	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1545814	8.446	ppbv	99
3) Chlorodifluoromethane	3.01	51	1008808	10.141	ppbv	99
4) Chloromethane	3.17	50	591945	10.403	ppbv	99
5) Vinyl Chloride	3.29	62	564354	9.737	ppbv	95
6) Bromomethane	3.51	94	370954	10.489	ppbv	99
7) Chloroethane	3.60	64	222151	10.785	ppbv	94
8) Dichlorotetrafluoroethane	3.22	85	1435127	9.726	ppbv	99
9) Propene	3.03	41	447417	10.574	ppbv	99
10) Heptane	8.25	43	1167174	9.741	ppbv	99
11) Trichlorofluoromethane	4.00	101	1740924	9.966	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1163738	9.540	ppbv	99
13) Ethanol	3.65	45	100803	7.371	ppbv	99
14) Bromoethene	3.79	108	485865	10.834	ppbv	99
15) Acetone	3.90	43	1083816	8.994	ppbv	99
16) 1,3-Butadiene	3.36	39	499458	10.409	ppbv	99
17) tert-Butyl alcohol	4.35	59	1045591	10.731	ppbv	99
18) 1,1-Dichloroethene	4.35	96	520656	10.112	ppbv	98
19) Isopropyl Alcohol	4.02	45	810960	10.438	ppbv	99
20) Methylene Chloride	4.41	84	436056	9.399	ppbv	98
21) Allyl Chloride	4.47	41	763999	10.165	ppbv	98
22) trans-1,2-Dichloroethene	4.96	96	526315	9.973	ppbv	94
23) Vinyl Acetate	5.15	43	1664727	10.478	ppbv	100
24) 1,1-Dichloroethane	5.09	63	1181545	9.783	ppbv	99
25) Ethyl Acetate	5.76	43	2044330	9.658	ppbv	100
26) Hexane	5.78	57	909383	9.993	ppbv	99
27) Carbon Disulfide	4.62	76	1285036	10.293	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1565030	10.549	ppbv	100
29) Chloroform	5.85	83	1532387	9.142	ppbv	99
30) Cyclohexane	7.24	84	791091	10.340	ppbv	100
31) cis-1,2-Dichloroethene	5.64	61	933138	10.342	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1566666	9.360	ppbv	100
34) 2-Butanone	5.32	43	1318840	9.816	ppbv	99
35) Carbon Tetrachloride	7.13	117	1713935	9.871	ppbv	98
36) Benzene	7.00	78	1871772	9.493	ppbv	99
37) 1,2-Dichloroethane	6.41	62	1178969	9.269	ppbv	100
38) Trichloroethene	7.96	130	800271	10.938	ppbv	99
39) 1,2-Dichloropropane	7.73	63	716958	9.753	ppbv	97
40) 1,4-Dioxane	7.95	88	315835	10.271	ppbv #	94
41) Tetrahydrofuran	6.15	42	732865	9.736	ppbv	98
42) Bromodichloromethane	7.92	83	1745315	10.023	ppbv	95
43) Methyl Methacrylate	8.14	69	773374	10.658	ppbv	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052819\
 Data File : VL033814.D
 Acq On : 28 May 2019 21:53
 Operator : SY/AP
 Sample : VL0528ABS02DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0528ABS02DUP

Manual Integrations
 APPROVED

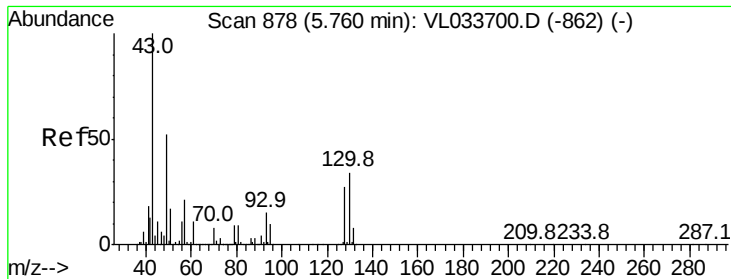
apatel
 5/29/2019 12:40:43 PM

Quant Time: May 29 05:49:12 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	3294977	9.888	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	1007447	10.952	ppbv	96
46) cis-1,3-Dichloropropene	8.83	75	1144048	10.621	ppbv	99
47) 1,1,2-Trichloroethane	9.61	97	781228	9.355	ppbv	98
48) Dibromochloromethane	10.45	129	1442849	9.972	ppbv	100
49) Bromoform	13.20	173	1354845	11.128	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2019253	9.771	ppbv	100
51) 2-Hexanone	10.27	43	1641266	10.176	ppbv #	99
52) Tetrachloroethene	11.37	164	713094	10.288	ppbv	98
53) Toluene	9.94	91	2187238	10.285	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1258572	9.876	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.27	131	963990	9.120	ppbv	96
57) Chlorobenzene	12.30	112	1677435	8.921	ppbv	98
58) Ethyl Benzene	12.86	91	3264632	10.792	ppbv	99
59) m/p-Xylene	13.15	91	5369977m	20.308	ppbv	
60) o-Xylene	13.85	91	2644819	9.922	ppbv	99
61) Styrene	13.68	104	1968606	10.969	ppbv	100
62) Isopropylbenzene	14.82	105	3413682	9.510	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	1832974	9.456	ppbv	99
64) n-propylbenzene	15.72	120	880363	9.481	ppbv	96
65) tert-Butylbenzene	16.90	119	3178950	9.699	ppbv	99
66) Benzyl Chloride	17.15	91	1611698	10.325	ppbv	100
67) sec-Butylbenzene	17.45	105	4470349	9.745	ppbv	99
69) p-Isopropyltoluene	17.81	119	3749961	9.890	ppbv	100
70) n-Butylbenzene	18.71	91	3971208	9.767	ppbv	100
71) 2-Chlorotoluene	15.61	91	2609714	9.799	ppbv	100
72) 4-Ethyltoluene	15.99	105	3047163	9.998	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	2913135	9.796	ppbv	98
74) 1,2,4-Trimethylbenzene	16.92	105	3068472	9.482	ppbv	99
75) 1,3-Dichlorobenzene	17.16	146	1782108	8.986	ppbv	99
76) 1,4-Dichlorobenzene	17.30	146	1774064	9.412	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	1726653	9.266	ppbv	100
78) Hexachloro-1,3-Butadiene	23.53	225	999539	7.095	ppbv	98
79) Naphthalene	22.40	128	2329572	7.750	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	675794	5.917	ppbv	96
81) 1,2,4-Trichlorobenzene	22.13	180	1363790	7.748	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: VL033814.D

Acq: 28 May 2019 21:53

Instrument :

MSVOA_L

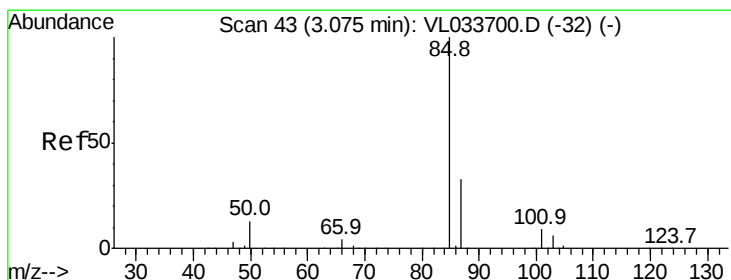
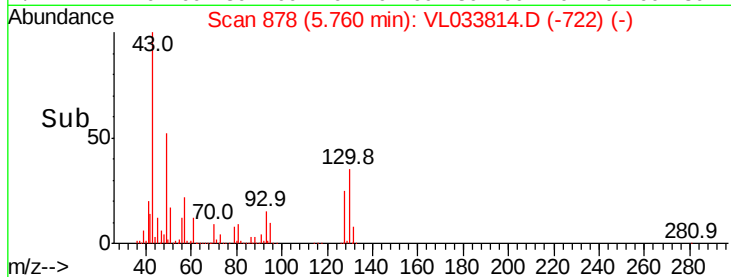
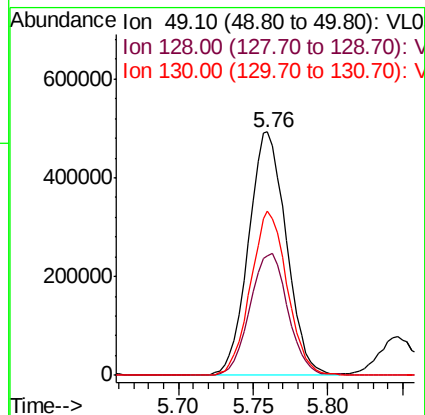
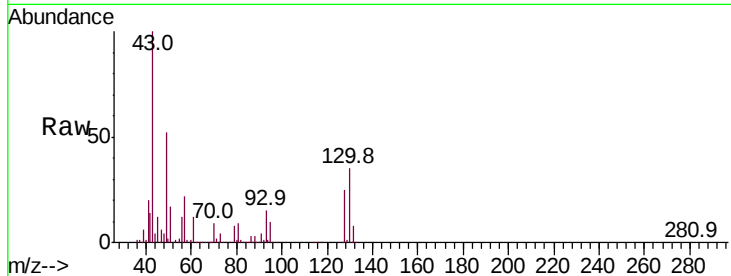
ClientSampleId :

VL0528ABS02DUP

Tot Ion	Ratio	Lower	Upper
49	100		
128	50.3	25.2	75.6
130	65.5	32.5	97.5

Manual Integrations
APPROVED

apatel
5/29/2019 12:40:43 PM



#2

Dichlorodifluoromethane

Concen: 8.446 ppbv

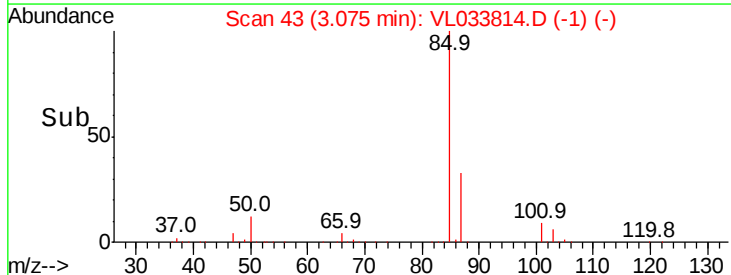
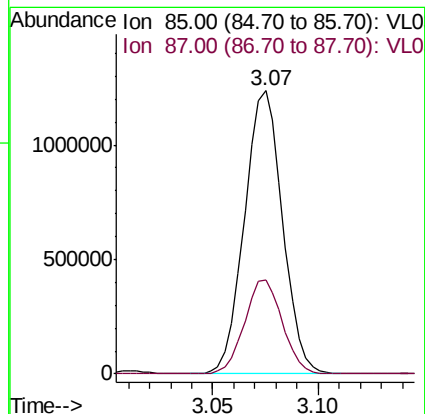
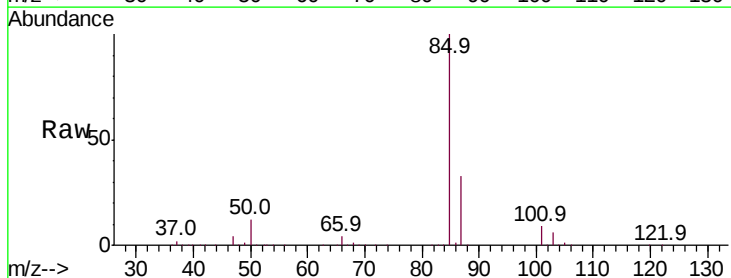
RT: 3.07 min Scan# 43

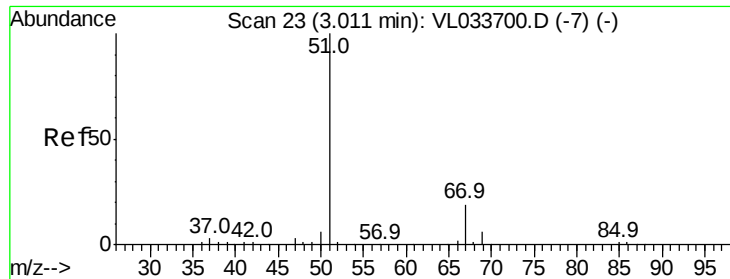
Delta R.T. 0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.4	26.3	39.5





#3

Chlorodifluoromethane

Concen: 10.141 ppbv

RT: 3.01 min Scan# 23

Delta R.T. 0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS02DUP

Tot Ion: 51 Resp: 1008808

Ion Ratio Lower Upper

51 100

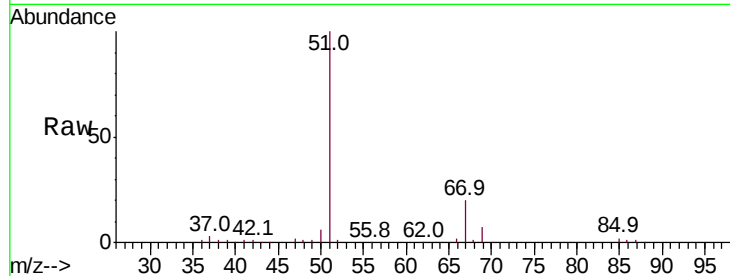
67 19.3 15.6 23.4

Manual Integrations

APPROVED

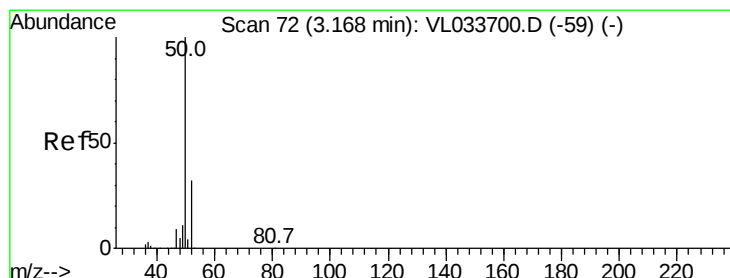
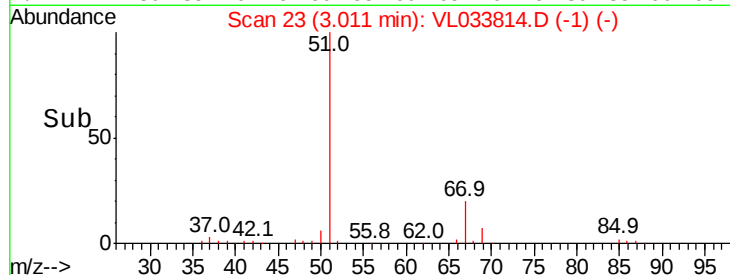
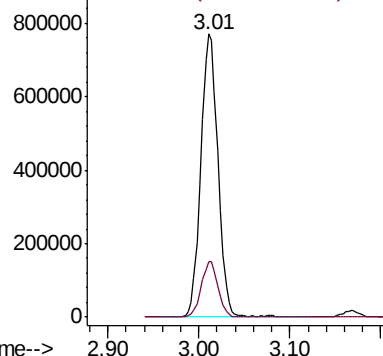
apatel

5/29/2019 12:40:43 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 10.403 ppbv

RT: 3.17 min Scan# 72

Delta R.T. 0.00 min

Lab File: VL033814.D

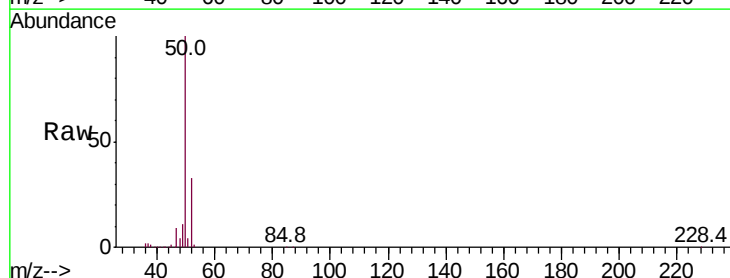
Acq: 28 May 2019 21:53

Tgt Ion: 50 Resp: 591945

Ion Ratio Lower Upper

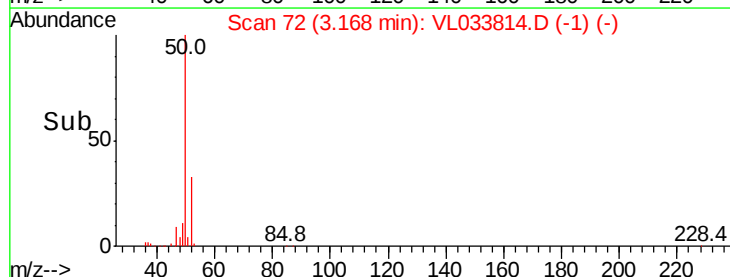
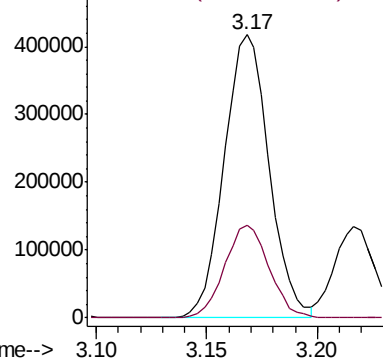
50 100

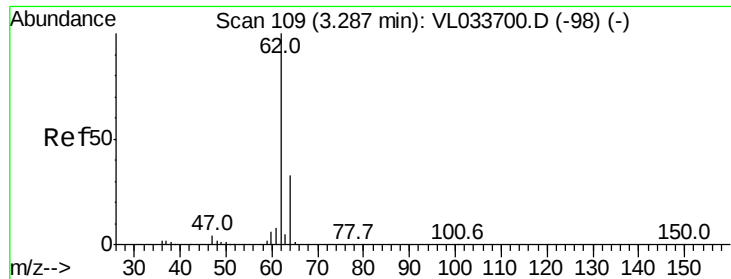
52 32.6 25.7 38.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.737 ppbv

RT: 3.29 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS02DUP

Tot Ion: 62 Resp: 564354

Ion Ratio Lower Upper

62 100

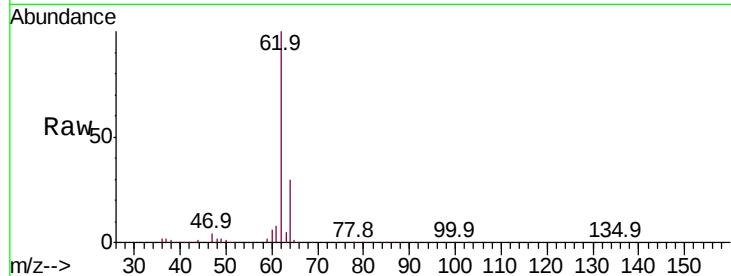
64 30.2 26.4 39.6

Manual Integrations

APPROVED

apatel

5/29/2019 12:40:43 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

500000

400000

300000

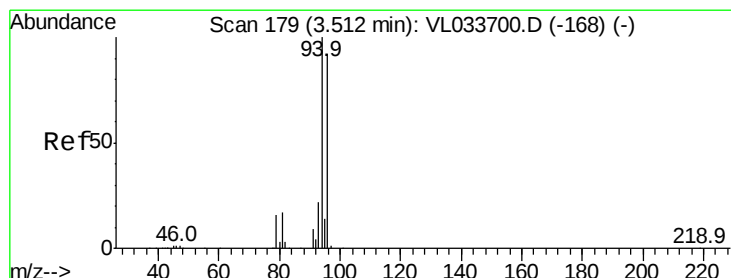
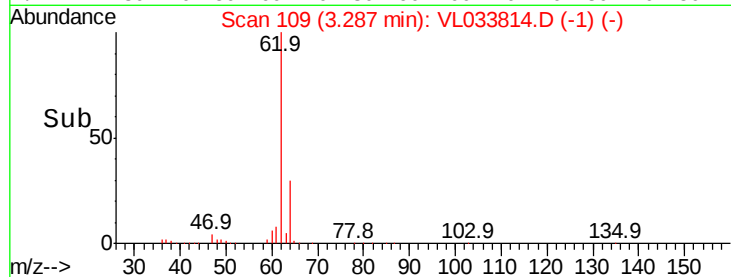
200000

100000

0

3.25 3.30 3.35

Time-->



#6

Bromomethane

Concen: 10.489 ppbv

RT: 3.51 min Scan# 178

Delta R.T. -0.00 min

Lab File: VL033814.D

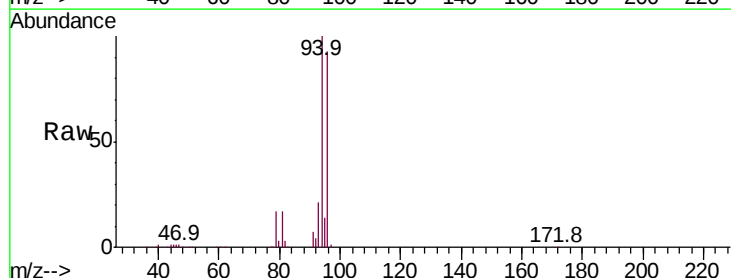
Acq: 28 May 2019 21:53

Tgt Ion: 94 Resp: 370954

Ion Ratio Lower Upper

94 100

96 92.9 73.6 110.4



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

300000

250000

200000

150000

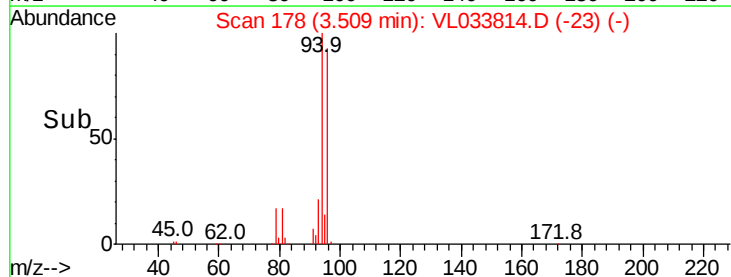
100000

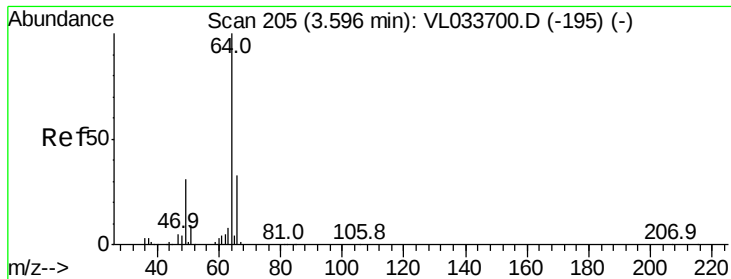
50000

0

3.45 3.50 3.55

Time-->





#7

Chloroethane

Concen: 10.785 ppbv

RT: 3.60 min Scan# 205

Delta R.T. 0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS02DUP

Tot Ion: 64 Resp: 222151

Ion Ratio Lower Upper

64 100

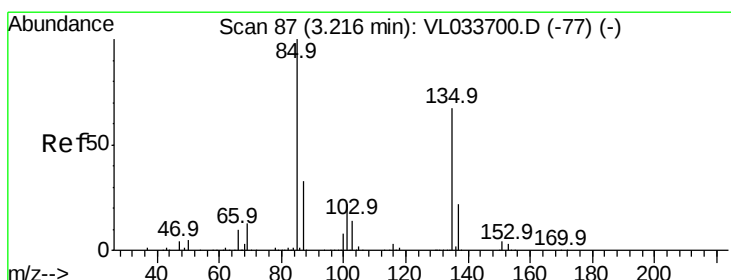
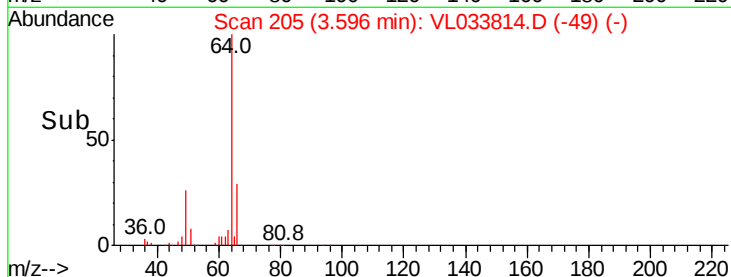
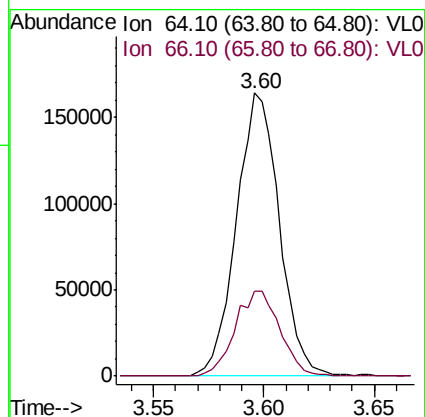
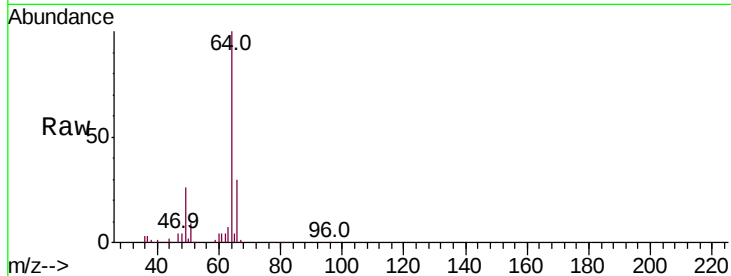
66 30.1 26.6 40.0

Manual Integrations

APPROVED

apatel

5/29/2019 12:40:43 PM



#8

Dichlorotetrafluoroethane

Concen: 9.726 ppbv

RT: 3.22 min Scan# 87

Delta R.T. 0.00 min

Lab File: VL033814.D

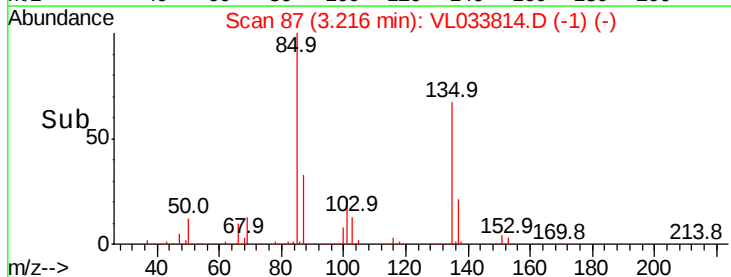
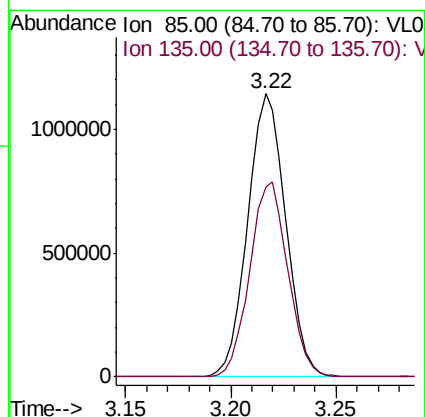
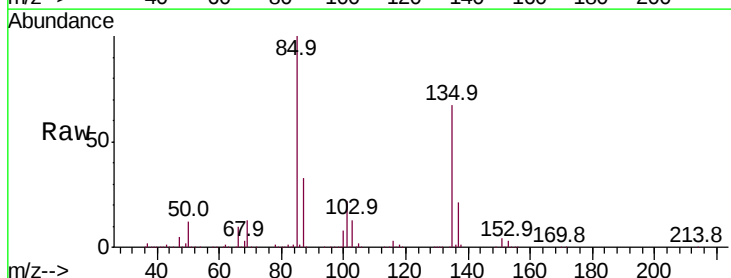
Acq: 28 May 2019 21:53

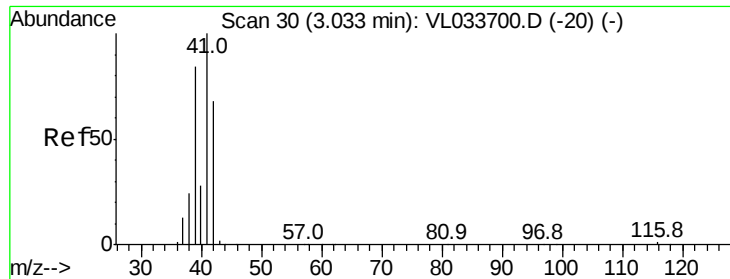
Tgt Ion: 85 Resp: 1435127

Ion Ratio Lower Upper

85 100

135 69.2 54.5 81.7





#9

Propene

Concen: 10.574 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS02DUP

Tot Ion: 41 Resp: 447417

Ion Ratio Lower Upper

41 100

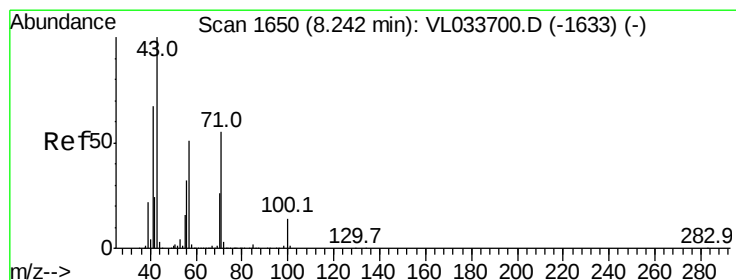
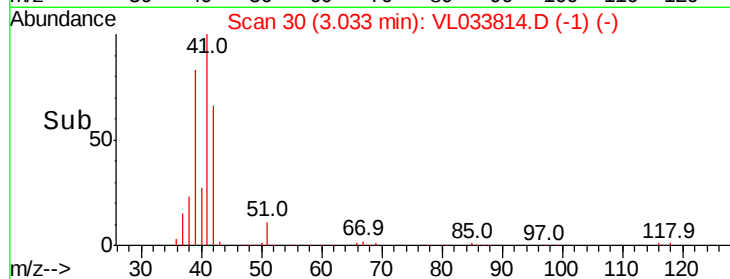
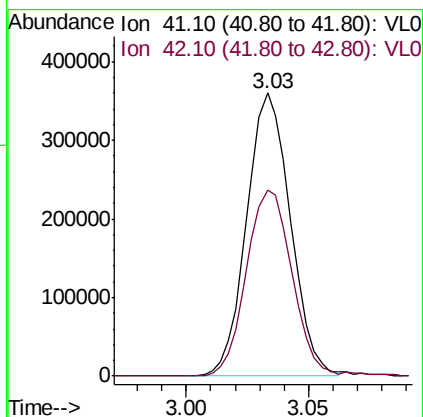
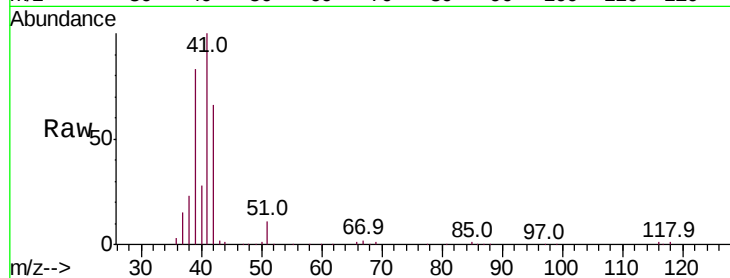
42 69.6 56.1 84.1

Manual Integrations

APPROVED

apatel

5/29/2019 12:40:43 PM



#10

Heptane

Concen: 9.741 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. 0.00 min

Lab File: VL033814.D

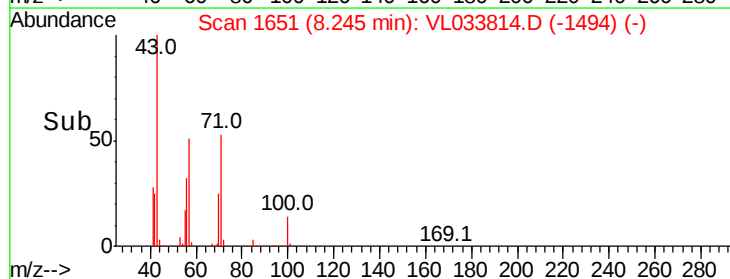
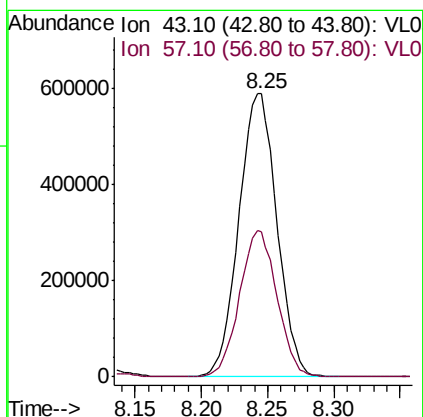
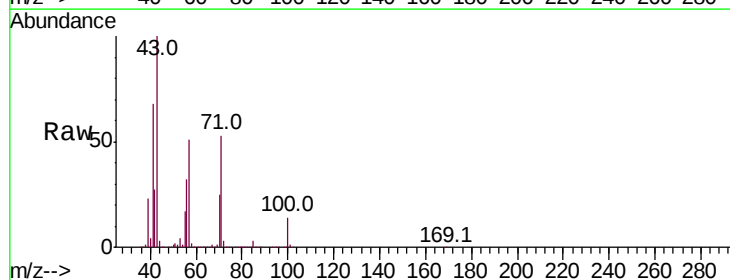
Acq: 28 May 2019 21:53

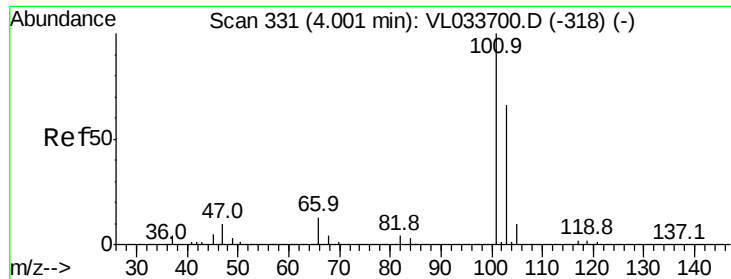
Tgt Ion: 43 Resp: 1167174

Ion Ratio Lower Upper

43 100

57 50.9 41.4 62.0





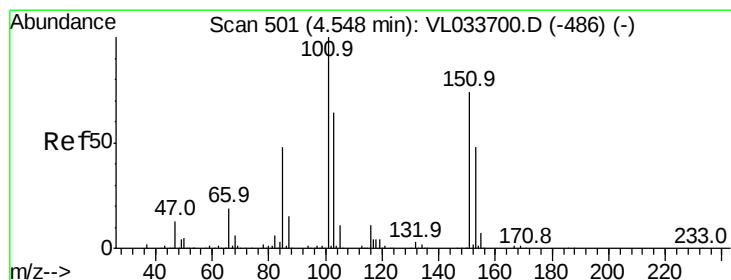
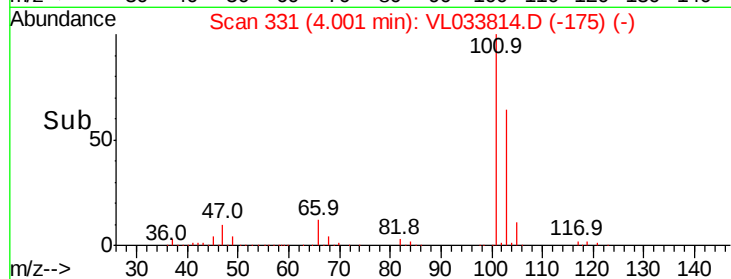
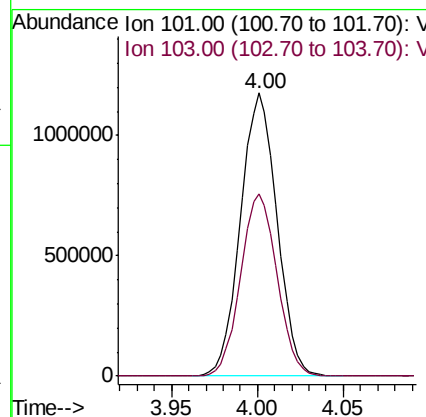
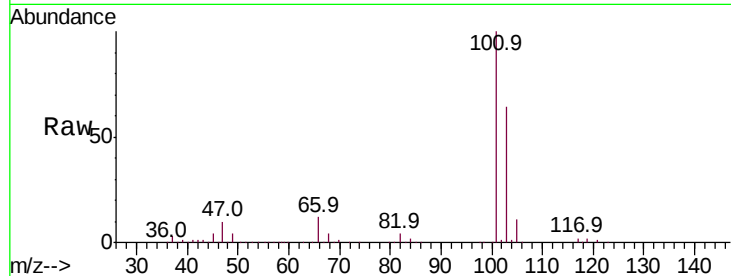
#11
 Trichlorofluoromethane
 Concen: 9.966 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. 0.00 min
 Lab File: VL033814.D
 Acq: 28 May 2019 21:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0528ABS02DUP

Tot Ion:101 Resp: 1740924
 Ion Ratio Lower Upper
 101 100
 103 64.2 52.6 78.8

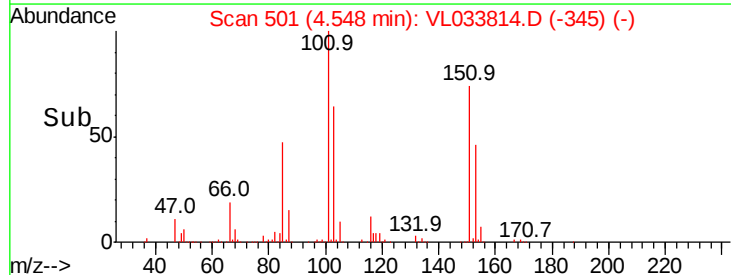
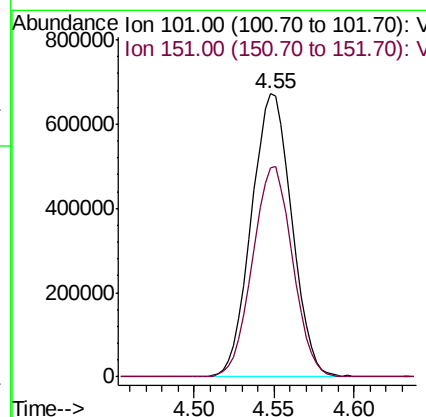
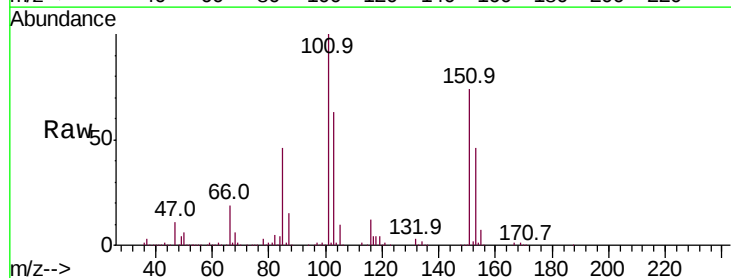
Manual Integrations
 APPROVED

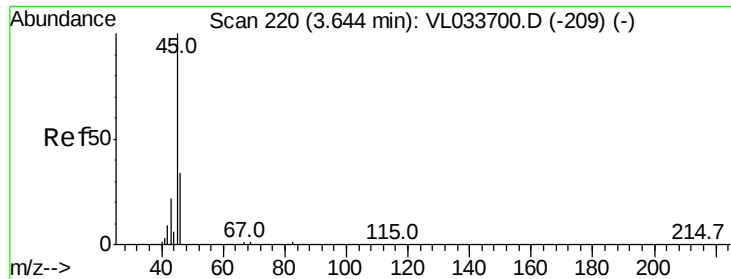
apatel
 5/29/2019 12:40:43 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.540 ppbv
 RT: 4.55 min Scan# 501
 Delta R.T. 0.00 min
 Lab File: VL033814.D
 Acq: 28 May 2019 21:53

Tgt Ion:101 Resp: 1163738
 Ion Ratio Lower Upper
 101 100
 151 73.8 58.2 87.4





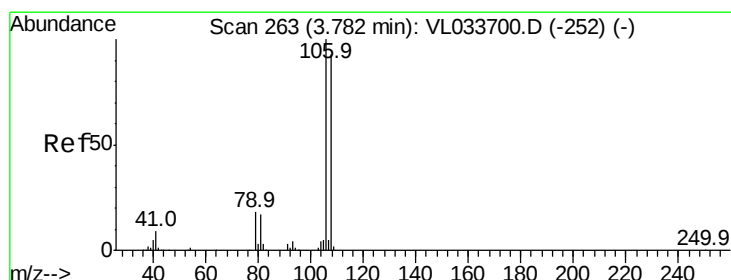
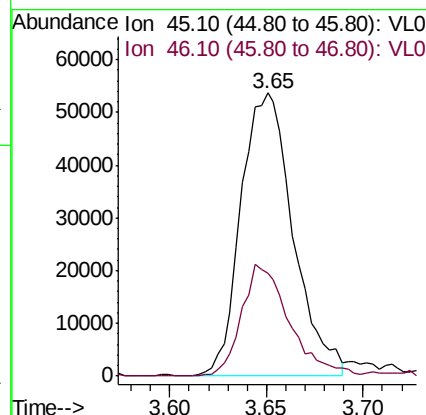
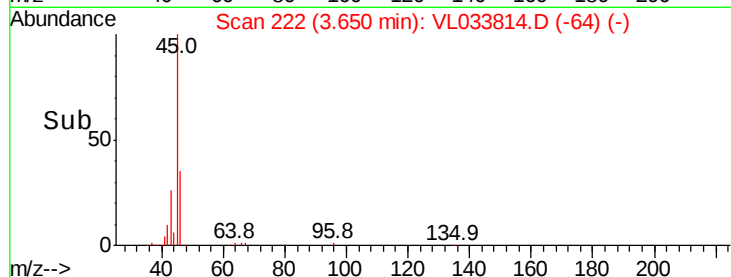
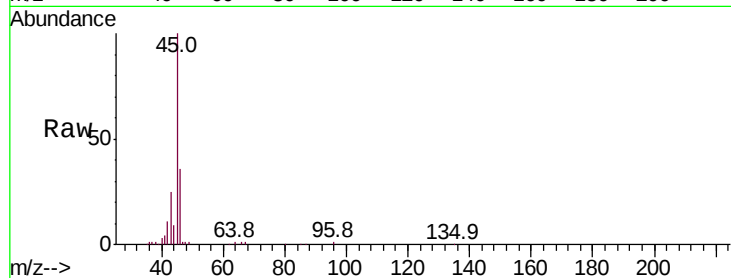
#13
Ethanol
Concen: 7.371 ppbv
RT: 3.65 min Scan# 222
Delta R.T. 0.01 min
Lab File: VL033814.D
Acq: 28 May 2019 21:53

Instrument :
MSVOA_L
ClientSampleId :
VL0528ABS02DUP

Tot Ion	Ratio	Lower	Upper
45	100		
46	37.7	14.8	59.0

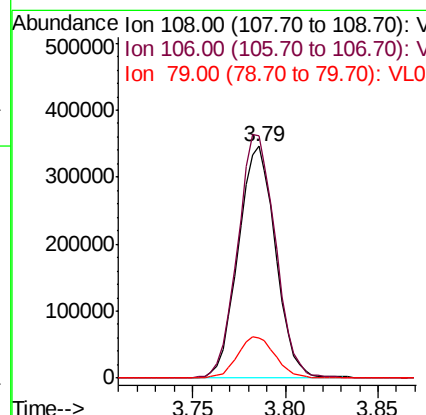
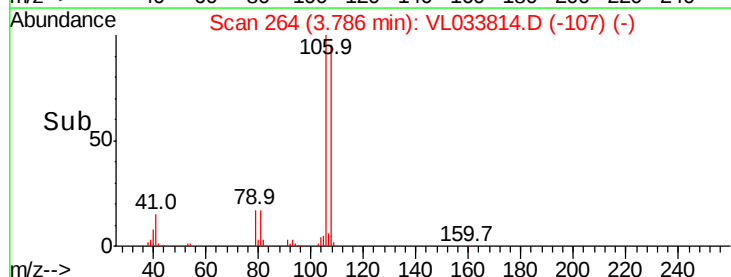
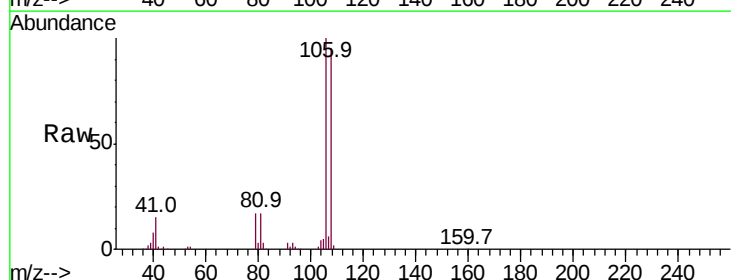
Manual Integrations
APPROVED

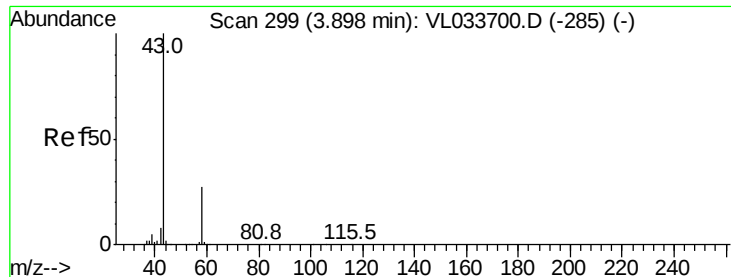
apatel
5/29/2019 12:40:43 PM



#14
Bromoethene
Concen: 10.834 ppbv
RT: 3.79 min Scan# 264
Delta R.T. 0.00 min
Lab File: VL033814.D
Acq: 28 May 2019 21:53

Tgt Ion	Ratio	Lower	Upper
108	100		
106	106.6	86.5	129.7
79	18.4	15.1	22.7





#15

Acetone

Concen: 8.994 ppbv

RT: 3.90 min Scan# 299

Delta R.T. 0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS02DUP

Tot Ion: 43 Resp: 1083816

Ion Ratio Lower Upper

43 100

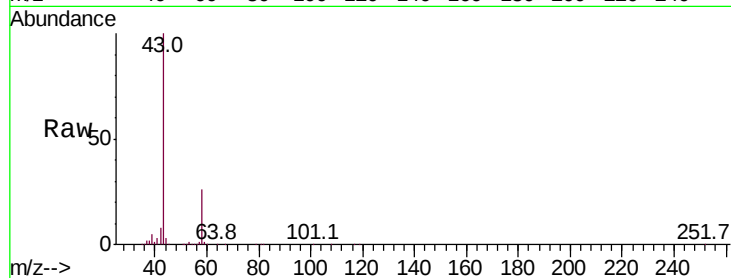
58 26.3 21.3 31.9

Manual Integrations

APPROVED

apatel

5/29/2019 12:40:43 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.90

800000

600000

400000

200000

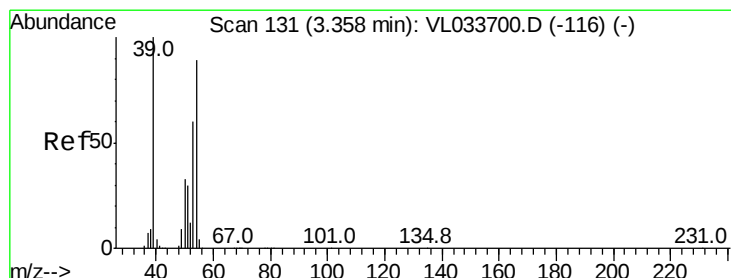
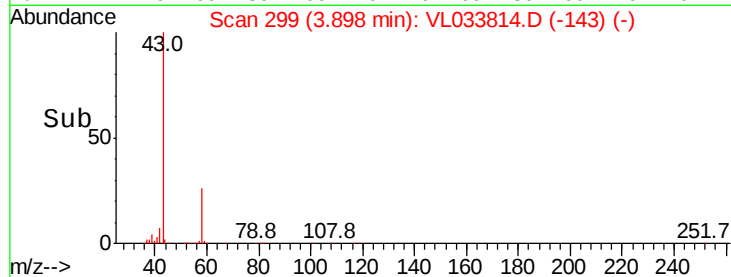
0

Time-->

3.85

3.90

3.95



#16

1,3-Butadiene

Concen: 10.409 ppbv

RT: 3.36 min Scan# 132

Delta R.T. 0.00 min

Lab File: VL033814.D

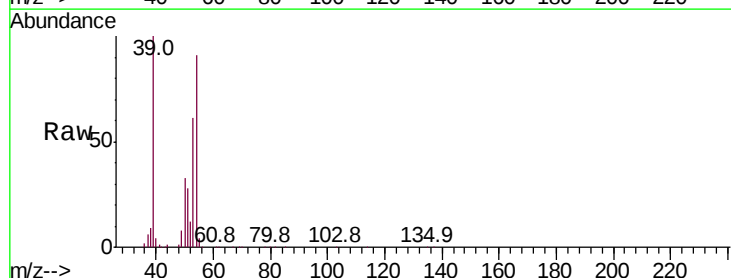
Acq: 28 May 2019 21:53

Tgt Ion: 39 Resp: 499458

Ion Ratio Lower Upper

39 100

54 87.6 69.0 103.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.36

400000

300000

200000

100000

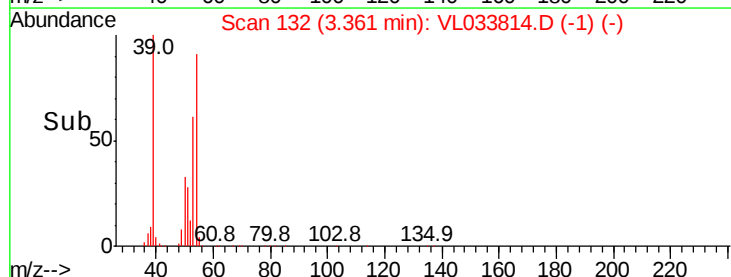
0

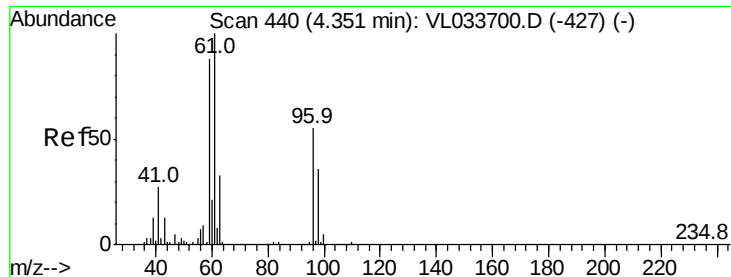
Time-->

3.30

3.35

3.40





#17

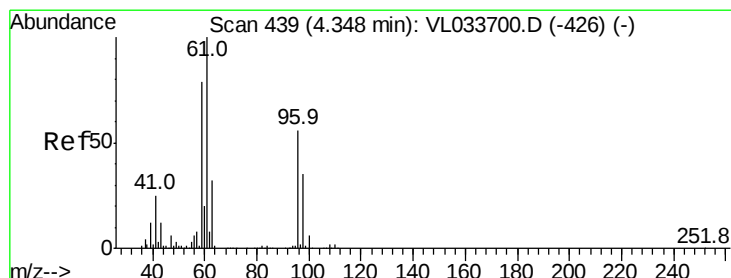
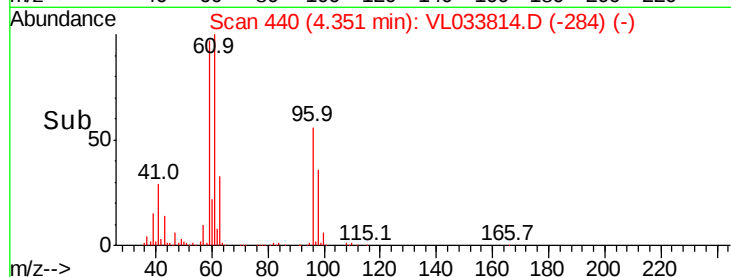
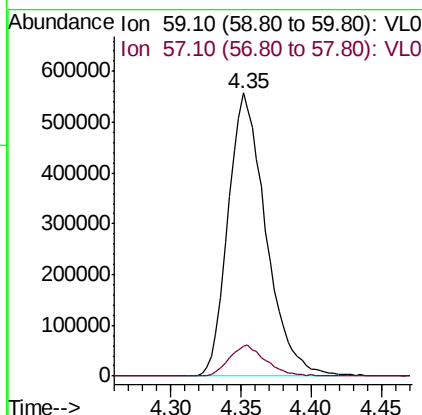
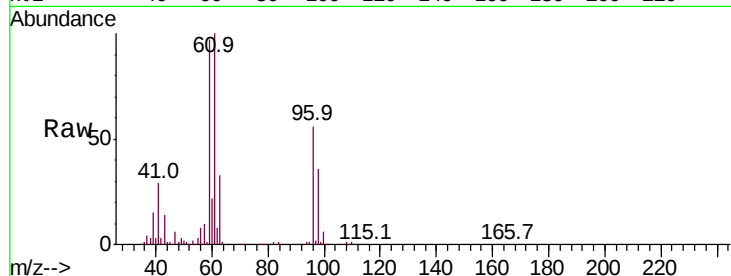
tert-Butyl alcohol
Concen: 10.731 ppbv
RT: 4.35 min Scan# 440
Delta R.T. 0.00 min
Lab File: VL033814.D
Acq: 28 May 2019 21:53

Instrument :
MSVOA_L
ClientSampleId :
VL0528ABS02DUP

Tot Ion: 59 Resp: 1045591
Ion Ratio Lower Upper
59 100
57 10.7 8.4 12.6

Manual Integrations
APPROVED

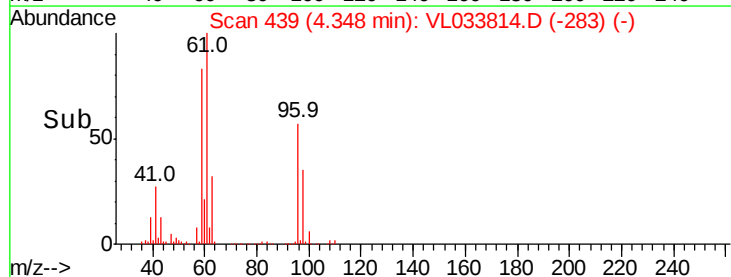
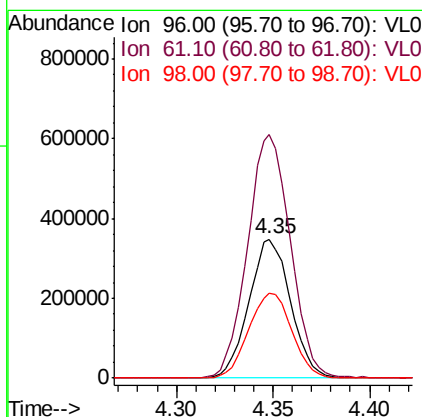
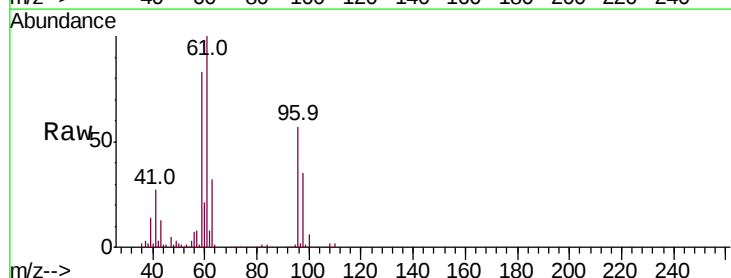
apatel
5/29/2019 12:40:43 PM

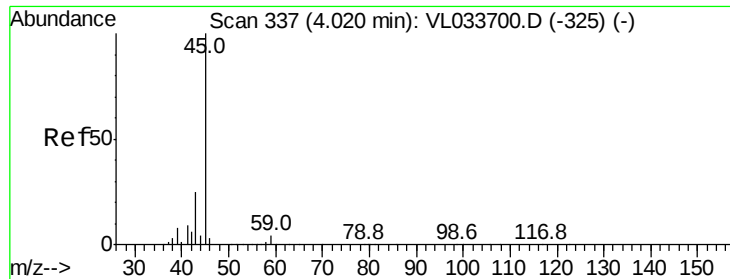


#18

1,1-Dichloroethene
Concen: 10.112 ppbv
RT: 4.35 min Scan# 439
Delta R.T. 0.00 min
Lab File: VL033814.D
Acq: 28 May 2019 21:53

Tgt Ion: 96 Resp: 520656
Ion Ratio Lower Upper
96 100
61 174.7 143.1 214.7
98 61.4 49.5 74.3





#19

Isopropyl Alcohol

Concen: 10.438 ppbv

RT: 4.02 min Scan# 337

Delta R.T. 0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Tot Ion: 45 Resp: 810960

Ion Ratio Lower Upper

45 100

58 2.3 1.6 2.4

Instrument :

MSVOA_L

ClientSampleId :

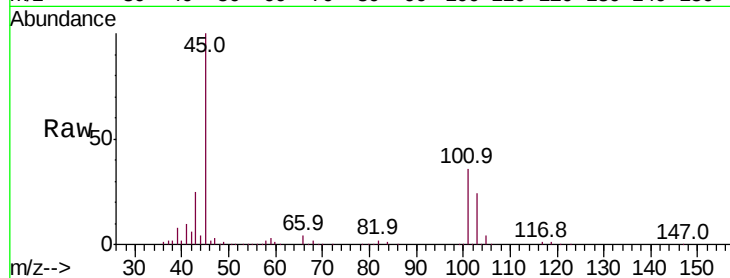
VL0528ABS02DUP

Manual Integrations

APPROVED

apatel

5/29/2019 12:40:43 PM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.02

500000

400000

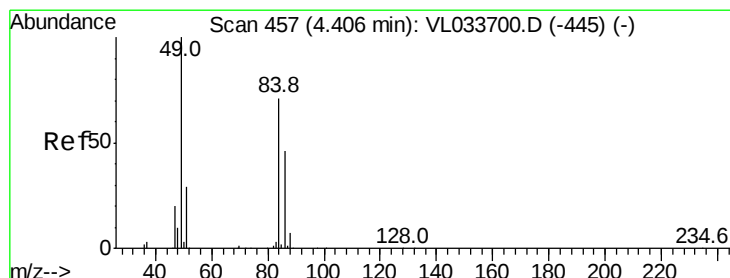
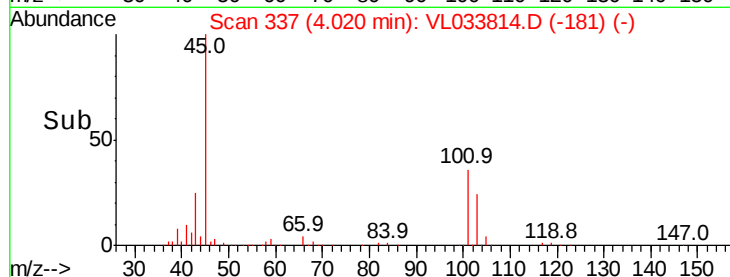
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 9.399 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Tgt Ion: 84 Resp: 436056

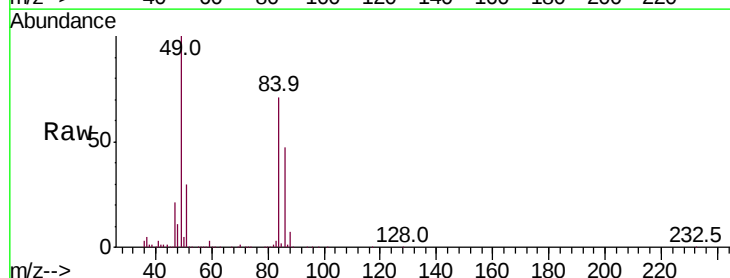
Ion Ratio Lower Upper

84 100

49 139.3 112.8 169.2

51 41.3 33.4 50.0

86 66.5 51.7 77.5



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

600000

500000

400000

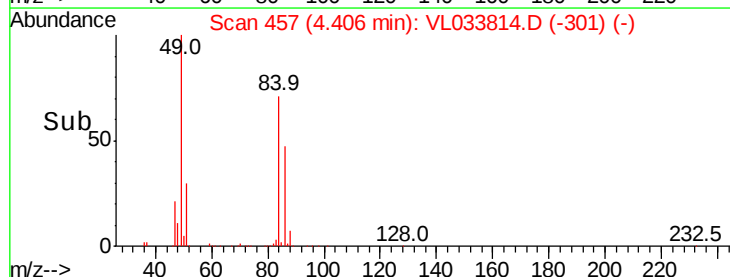
300000

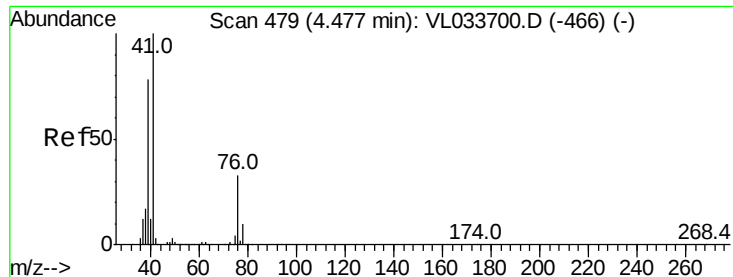
200000

100000

0

Time-->





#21

Allvl Chloride

Concen: 10.165 ppbv

RT: 4.47 min Scan# 478

Delta R.T. -0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Instrument :

MSVOA_L

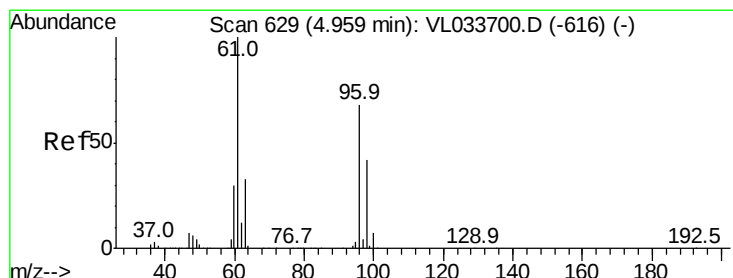
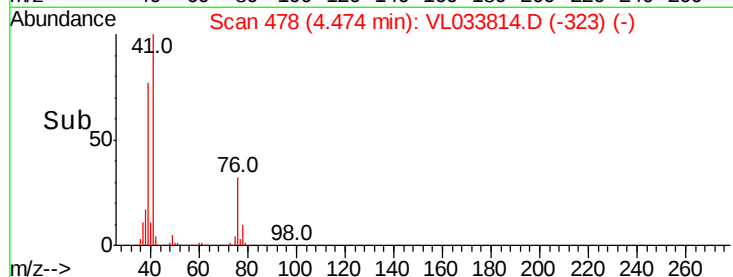
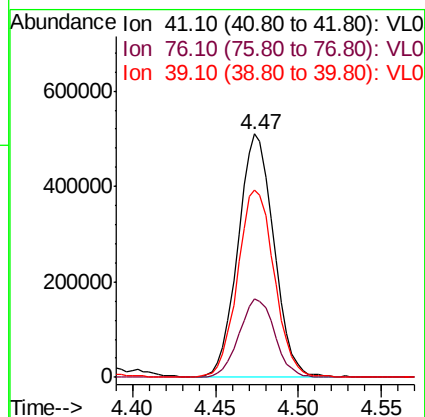
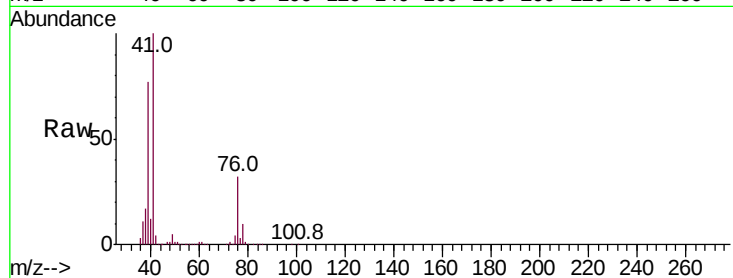
ClientSampleId :

VL0528ABS02DUP

Tot Ion:	41	Resp:	763999
Ion Ratio	Lower	Upper	
41	100		
76	32.2	25.9	38.9
39	78.9	64.6	97.0

Manual Integrations
APPROVED

apatel
5/29/2019 12:40:43 PM



#22

trans-1,2-Dichloroethene

Concen: 9.973 ppbv

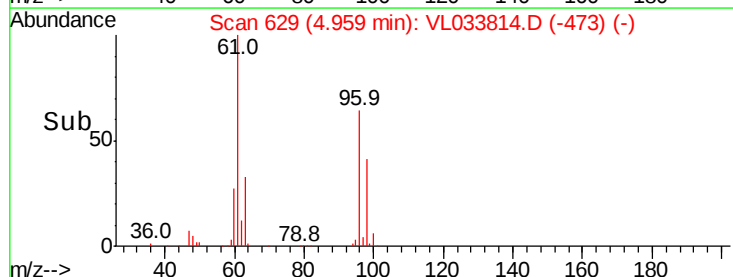
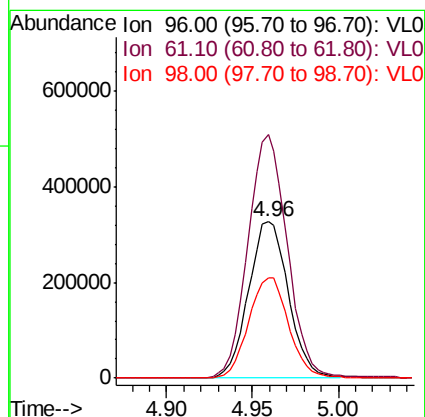
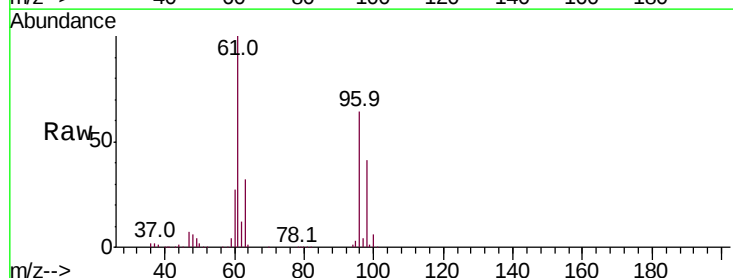
RT: 4.96 min Scan# 629

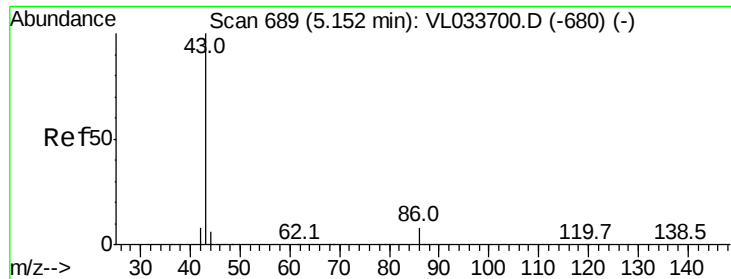
Delta R.T. 0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Tgt Ion:	96	Resp:	526315
Ion Ratio	Lower	Upper	
96	100		
61	155.7	116.8	175.2
98	64.1	49.4	74.0





#23

Vinyl Acetate

Concen: 10.478 ppbv

RT: 5.15 min Scan# 689

Delta R.T. 0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS02DUP

Tot Ion: 43 Resp: 1664727

Ion Ratio Lower Upper

43 100

86 7.7 6.0 9.0

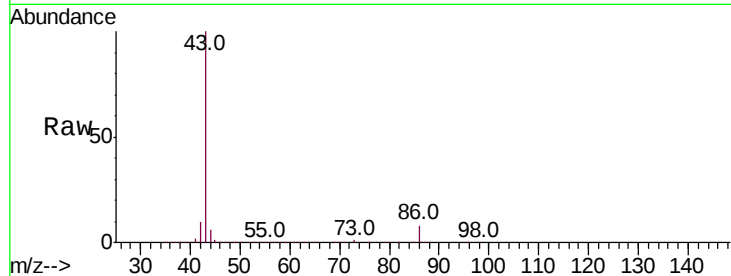
42 9.6 7.5 11.3

44 5.3 4.4 6.6

Manual Integrations
APPROVED

apatel

5/29/2019 12:40:43 PM

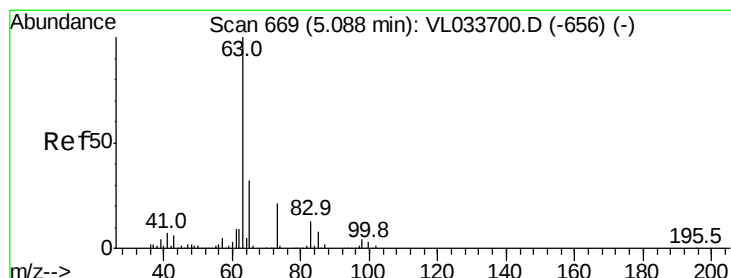
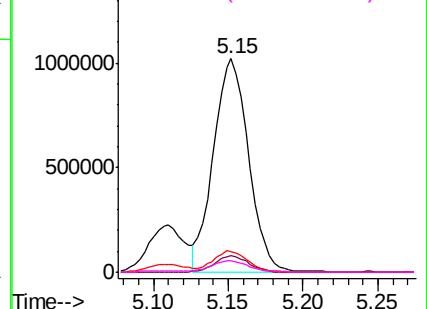
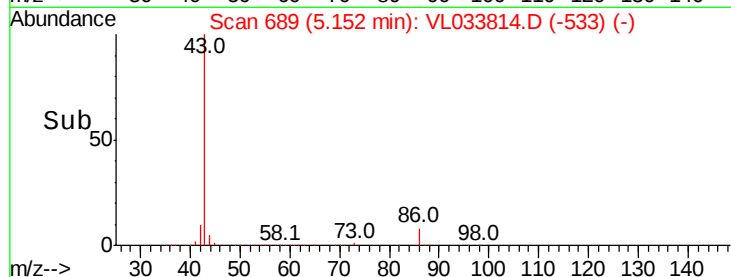


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.783 ppbv

RT: 5.09 min Scan# 669

Delta R.T. 0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

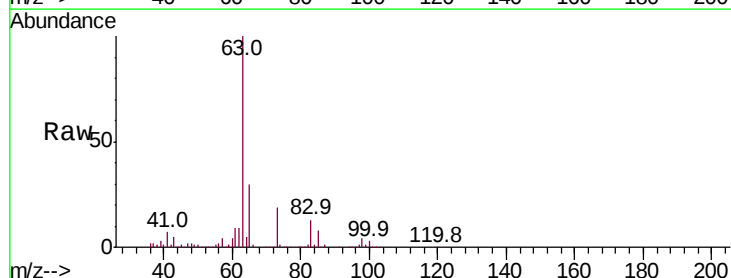
Tgt Ion: 63 Resp: 1181545

Ion Ratio Lower Upper

63 100

98 4.2 1.8 5.5

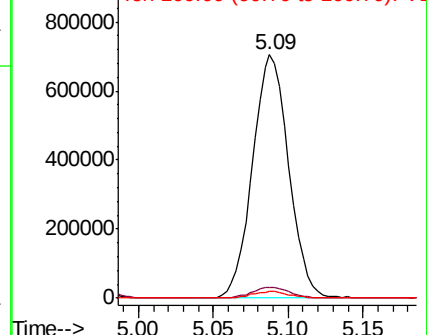
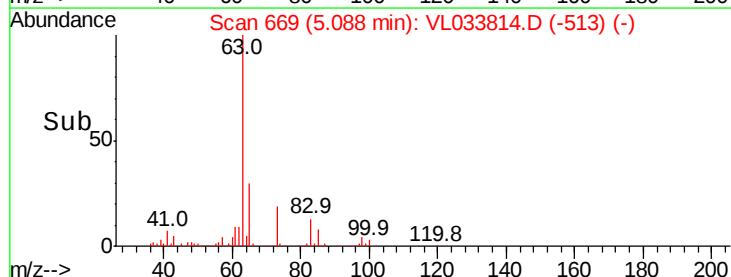
100 2.7 1.4 4.2

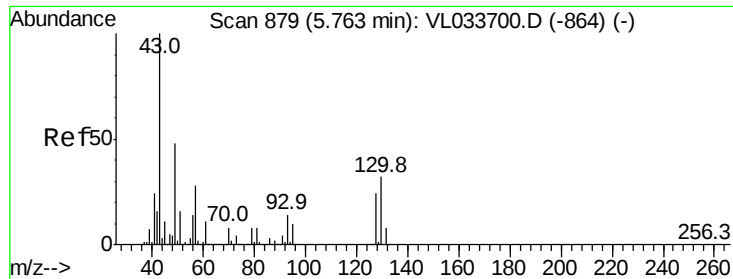


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.658 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS02DUP

Tot Ion: 43 Resp: 2044330

Ion Ratio Lower Upper

43 100

45 10.1 7.9 11.9

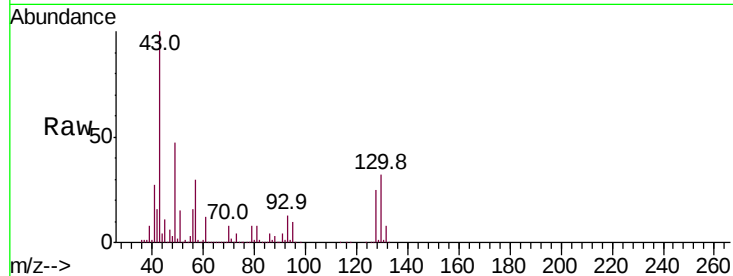
61 9.6 7.7 11.5

70 7.4 5.8 8.6

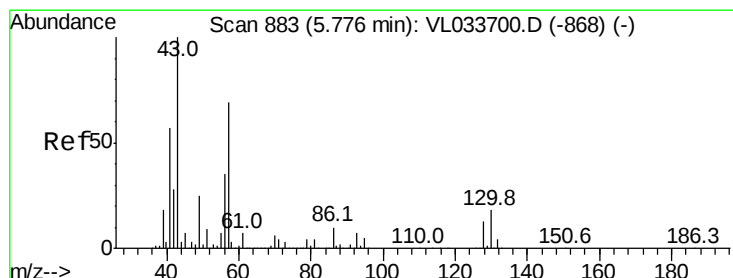
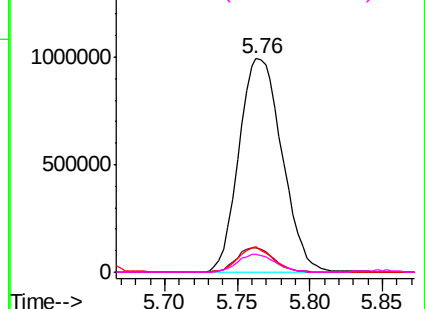
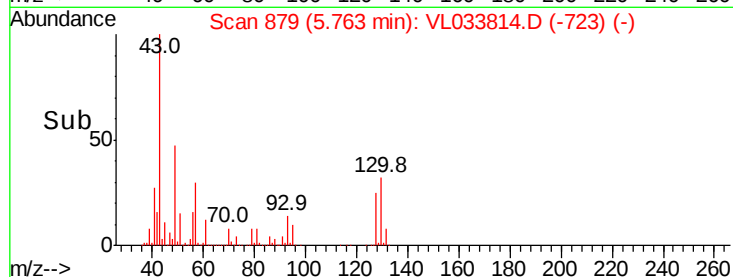
Manual Integrations
APPROVED

apatel

5/29/2019 12:40:43 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.993 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Tgt Ion: 57 Resp: 909383

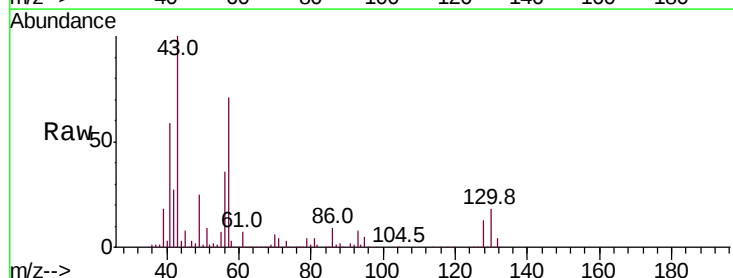
Ion Ratio Lower Upper

57 100

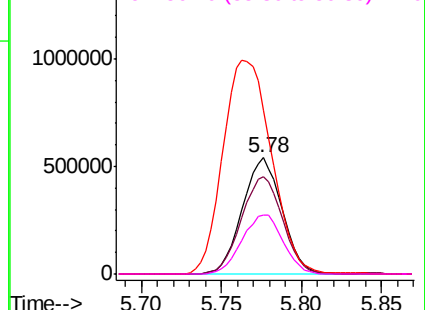
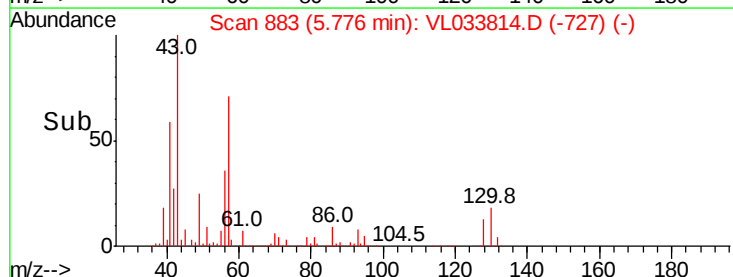
41 87.6 69.8 104.6

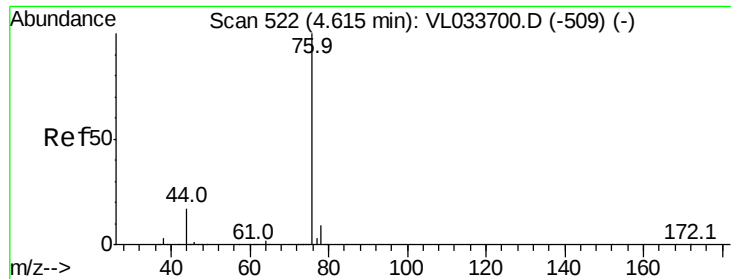
43 226.2 181.8 272.6

56 52.9 42.1 63.1



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





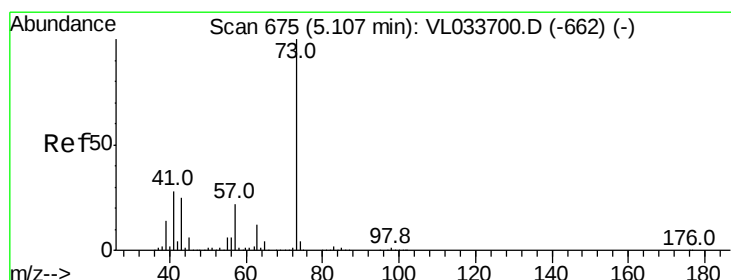
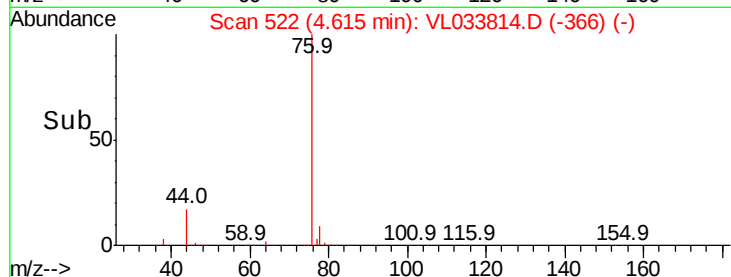
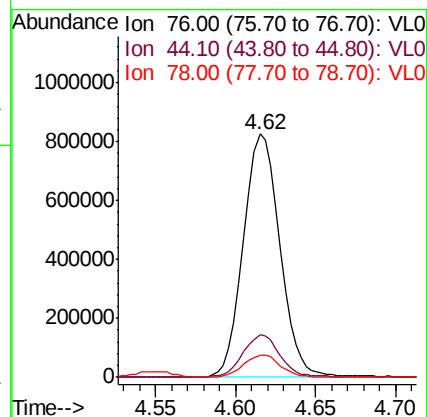
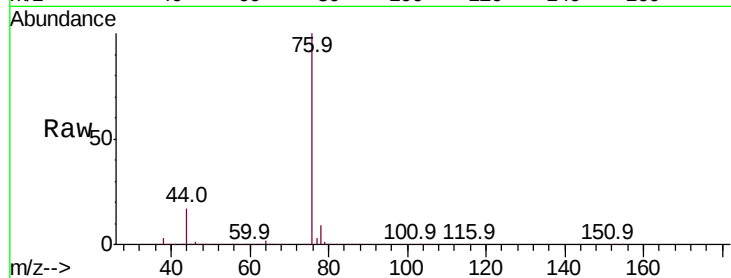
#27
Carbon Disulfide
Concen: 10.293 ppbv
RT: 4.62 min Scan# 522
Delta R.T. 0.00 min
Lab File: VL033814.D
Acq: 28 May 2019 21:53

Instrument :
MSVOA_L
ClientSampleId :
VL0528ABS02DUP

Tot Ion	Ratio	Lower	Upper
76	100		
44	17.6	13.8	20.8
78	9.2	7.4	11.0

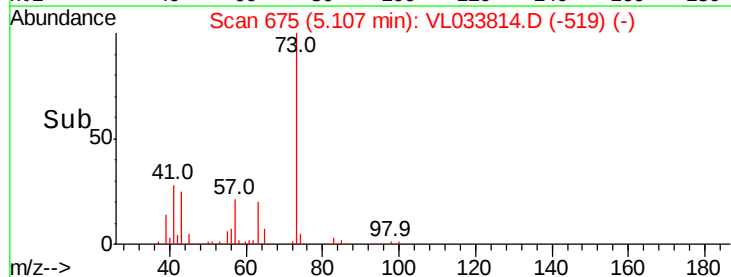
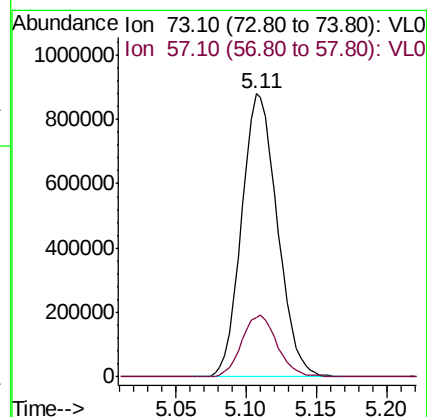
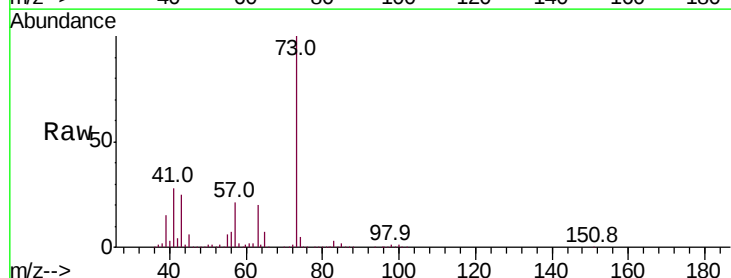
Manual Integrations
APPROVED

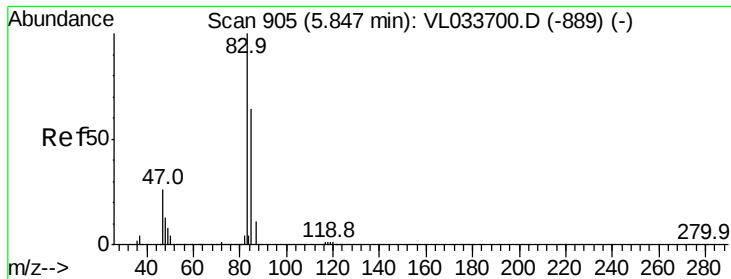
apatel
5/29/2019 12:40:43 PM



#28
Methyl tert-Butyl Ether
Concen: 10.549 ppbv
RT: 5.11 min Scan# 675
Delta R.T. 0.00 min
Lab File: VL033814.D
Acq: 28 May 2019 21:53

Tgt Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.4	26.2





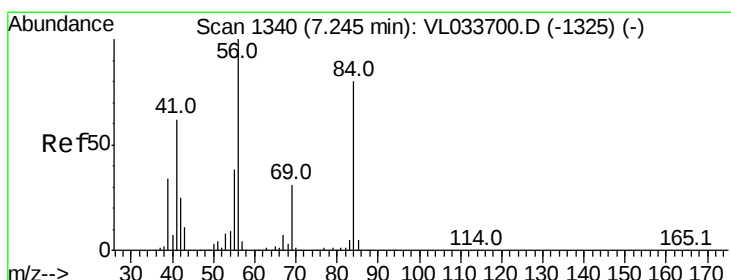
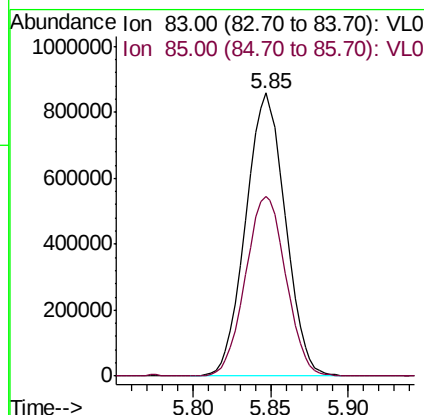
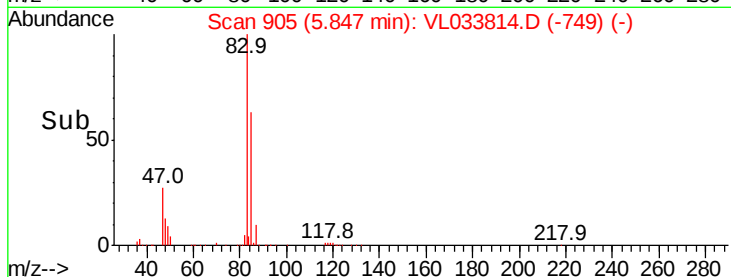
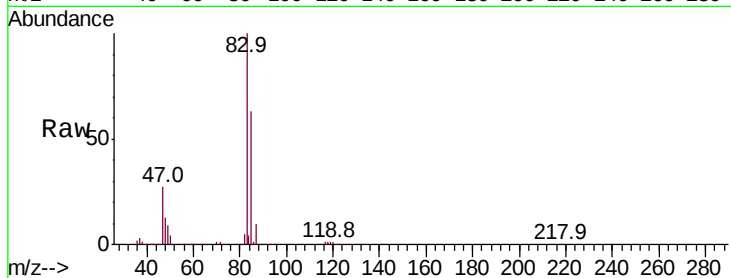
#29
Chloroform
Concen: 9.142 ppbv
RT: 5.85 min Scan# 905
Delta R.T. 0.00 min
Lab File: VL033814.D
Acq: 28 May 2019 21:53

Instrument :
MSVOA_L
ClientSampleId :
VL0528ABS02DUP

Tot Ion: 83 Resp: 1532387
Ion Ratio Lower Upper
83 100
85 63.3 51.5 77.3

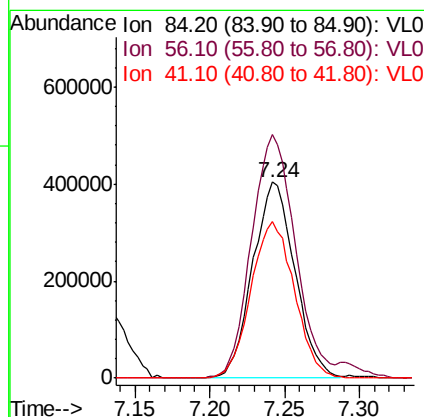
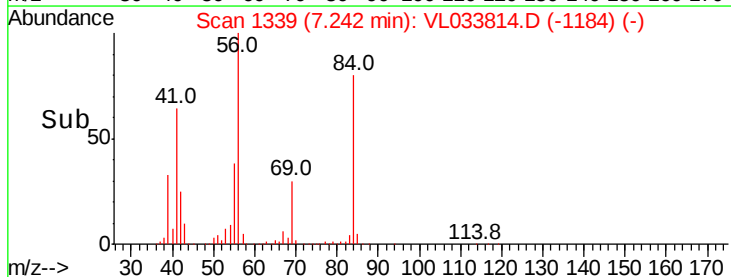
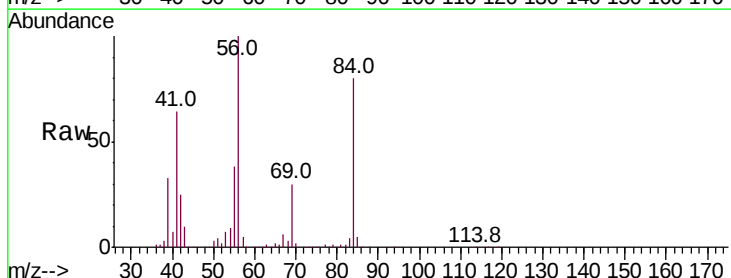
Manual Integrations
APPROVED

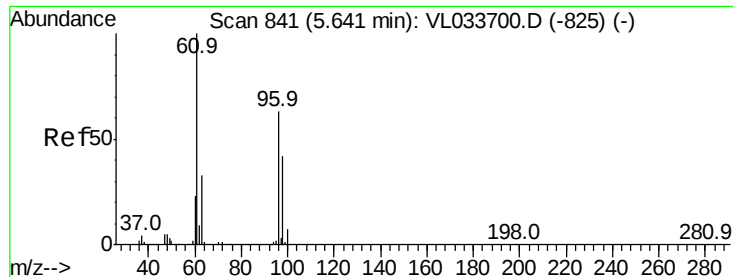
apatel
5/29/2019 12:40:43 PM



#30
Cyclohexane
Concen: 10.340 ppbv
RT: 7.24 min Scan# 1339
Delta R.T. -0.00 min
Lab File: VL033814.D
Acq: 28 May 2019 21:53

Tgt Ion: 84 Resp: 791091
Ion Ratio Lower Upper
84 100
56 134.2 107.7 161.5
41 82.3 66.0 99.0





#31

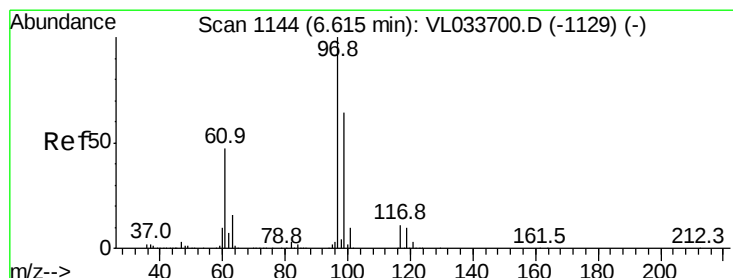
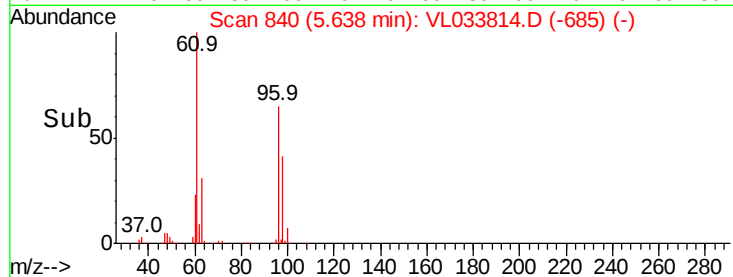
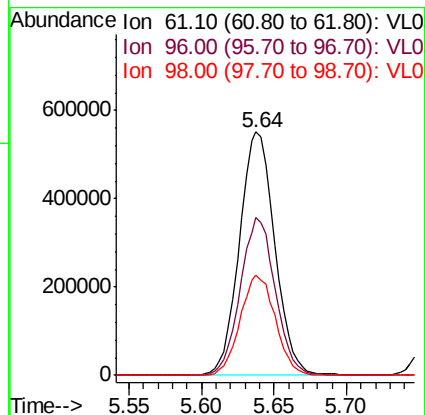
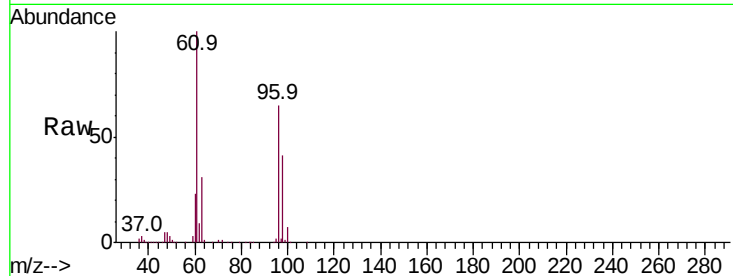
cis-1,2-Dichloroethene
Concen: 10.342 ppbv
RT: 5.64 min Scan# 840
Delta R.T. -0.00 min
Lab File: VL033814.D
Acq: 28 May 2019 21:53

Instrument :
MSVOA_L
ClientSampleId :
VL0528ABS02DUP

Tot Ion	Ratio	Resp	Lower	Upper
61	100	933138		
96	64.9	50.8	76.2	
98	41.3	33.3	49.9	

Manual Integrations
APPROVED

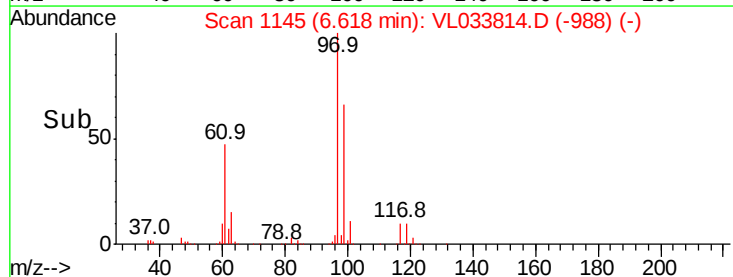
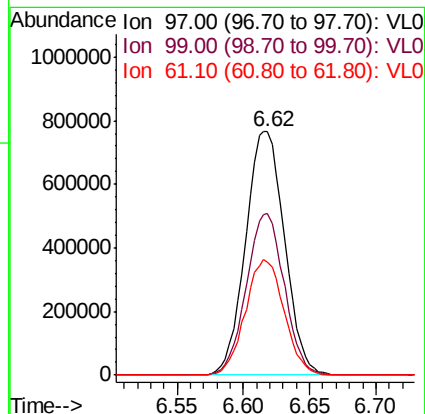
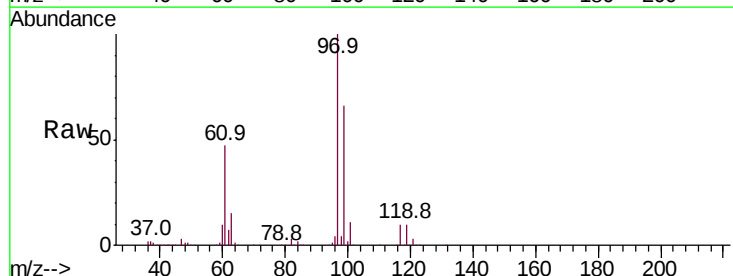
apatel
5/29/2019 12:40:43 PM

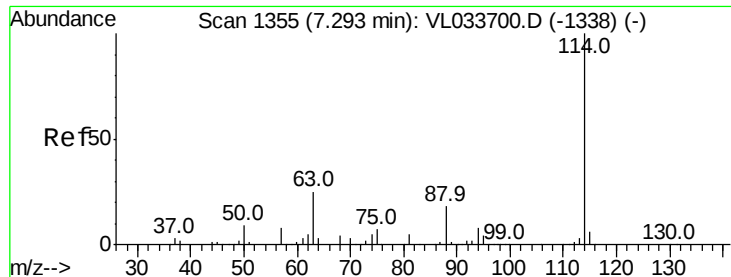


#32

1,1,1-Trichloroethane
Concen: 9.360 ppbv
RT: 6.62 min Scan# 1145
Delta R.T. 0.00 min
Lab File: VL033814.D
Acq: 28 May 2019 21:53

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	1566666		
99	64.6	51.5	77.3	
61	47.3	37.8	56.8	





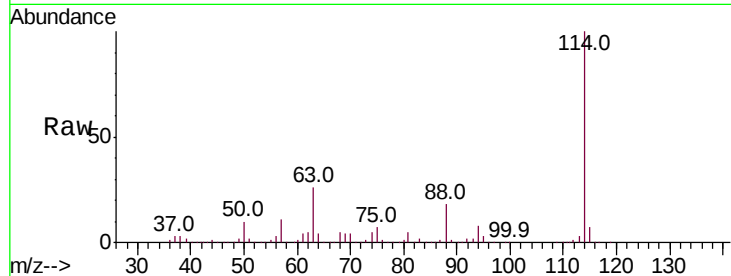
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.00 min
 Lab File: VL033814.D
 Acq: 28 May 2019 21:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0528ABS02DUP

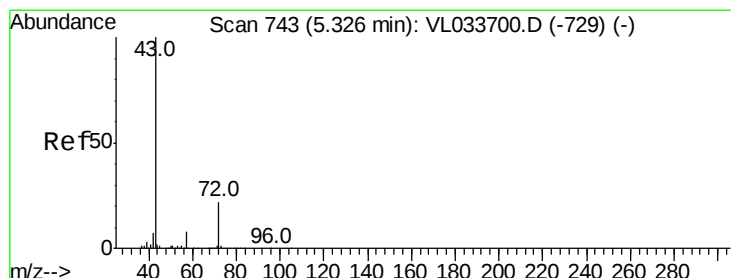
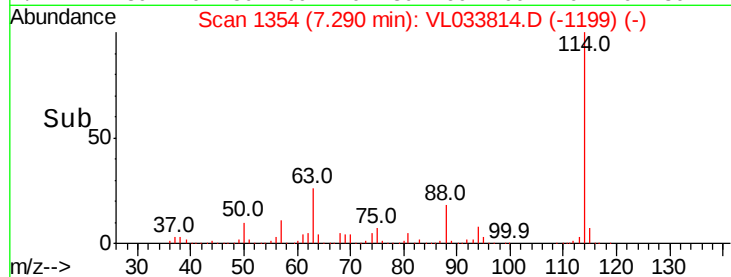
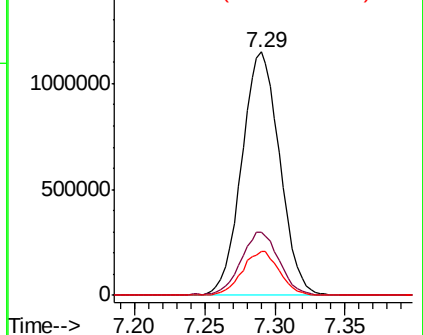
Tot Ion	Ratio	Lower	Upper
114	100		
63	26.5	20.9	31.3
88	17.8	14.3	21.5

Manual Integrations
 APPROVED

apatel
 5/29/2019 12:40:43 PM

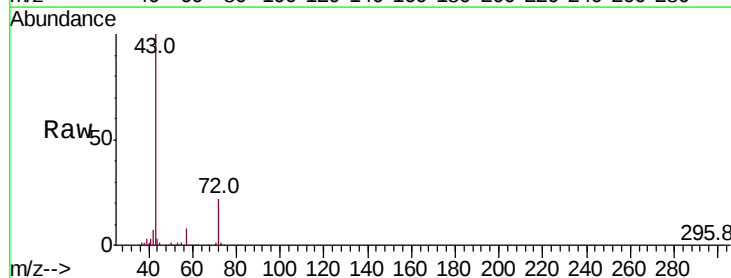


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

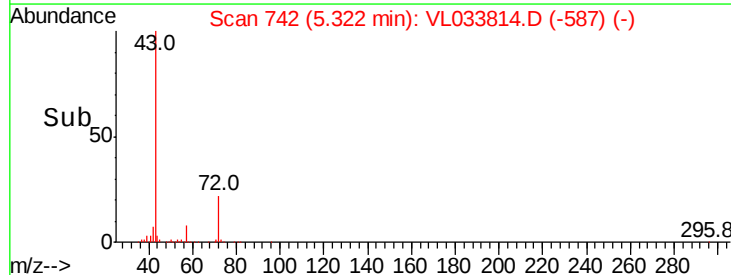
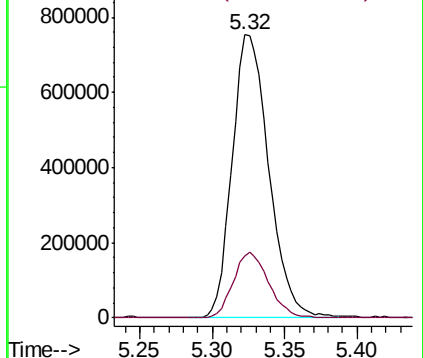


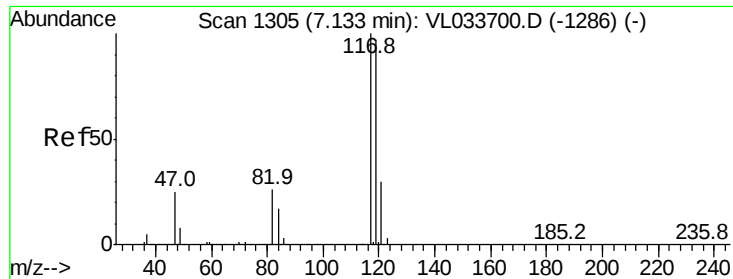
#34
 2-Butanone
 Concen: 9.816 ppbv
 RT: 5.32 min Scan# 742
 Delta R.T. -0.00 min
 Lab File: VL033814.D
 Acq: 28 May 2019 21:53

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.7	17.8	26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.871 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS02DUP

Tot Ion:117 Resp: 1713935

Ion Ratio Lower Upper

117 100

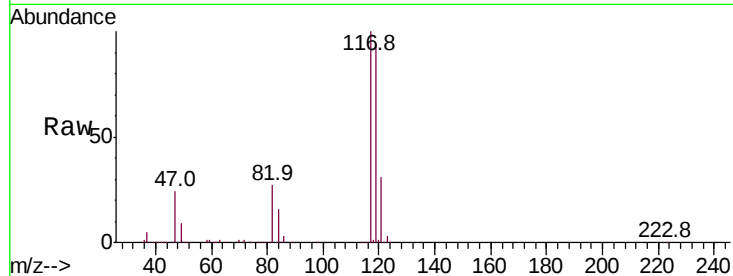
119 93.8 77.2 115.8

121 30.7 24.1 36.1

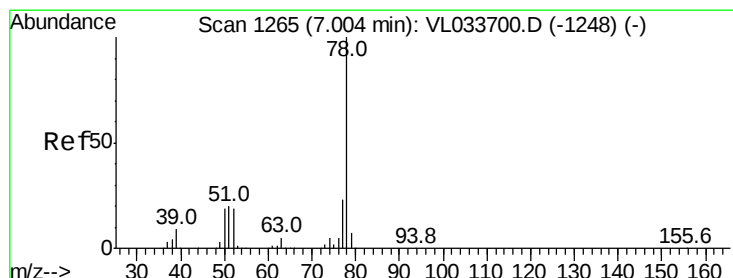
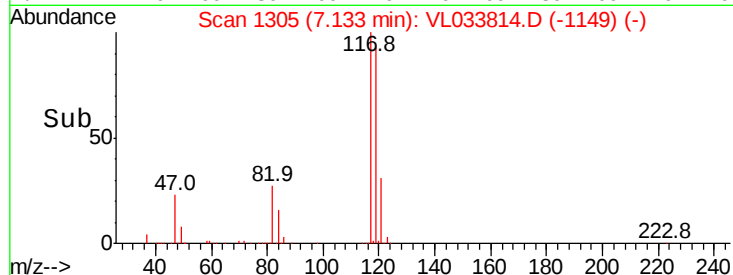
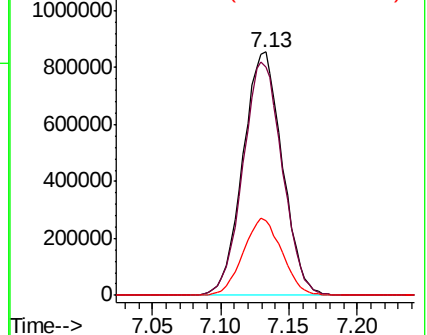
Manual Integrations
APPROVED

apatel

5/29/2019 12:40:43 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: 9.493 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

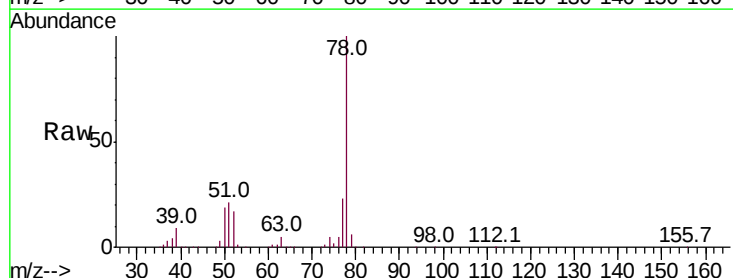
Tgt Ion: 78 Resp: 1871772

Ion Ratio Lower Upper

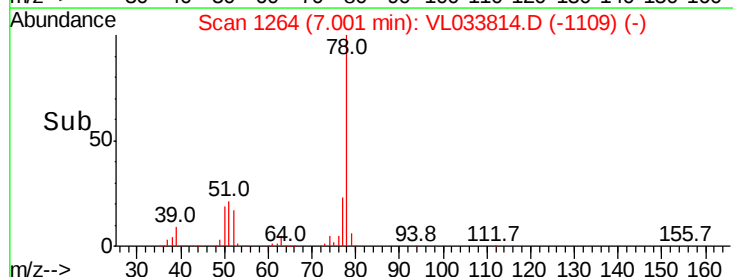
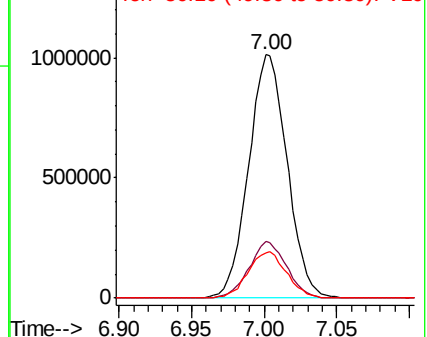
78 100

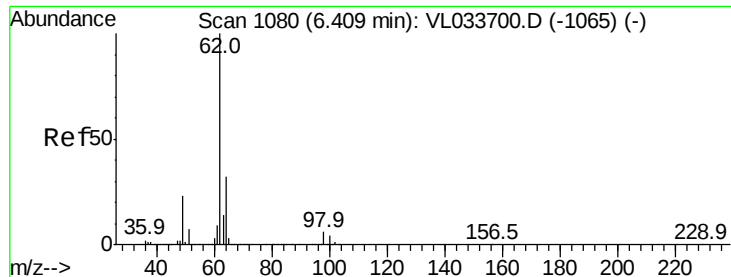
77 23.0 18.4 27.6

50 18.5 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





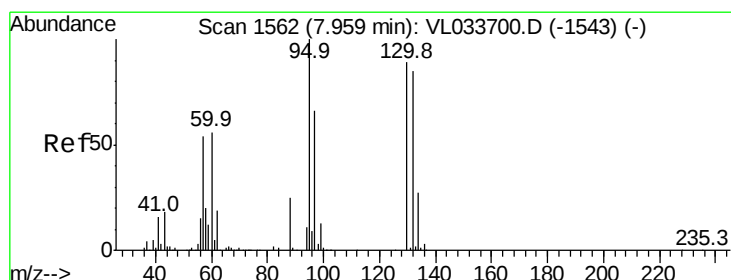
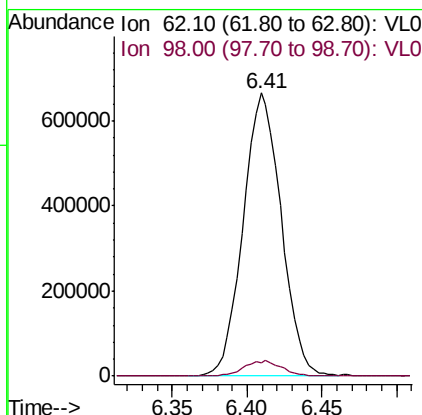
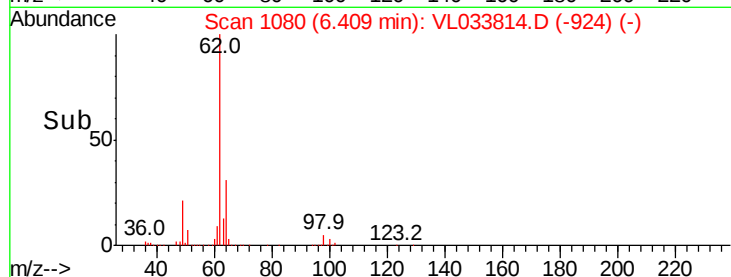
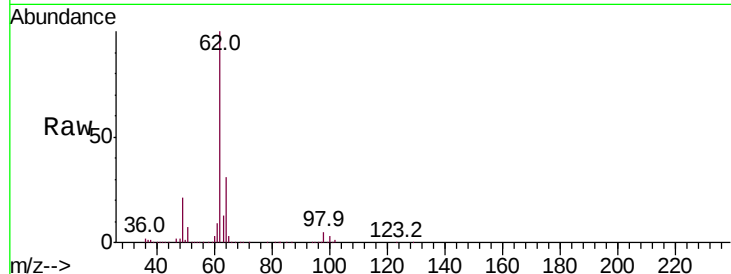
#37
 1,2-Dichloroethane
 Concen: 9.269 ppbv
 RT: 6.41 min Scan# 1080
 Delta R.T. 0.00 min
 Lab File: VL033814.D
 Acq: 28 May 2019 21:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0528ABS02DUP

Tot Ion: 62 Resp: 1178969
 Ion Ratio Lower Upper
 62 100
 98 5.6 4.5 6.7

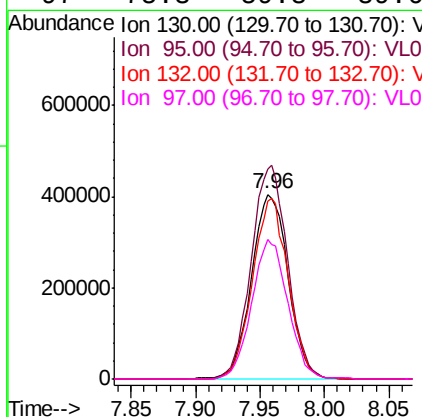
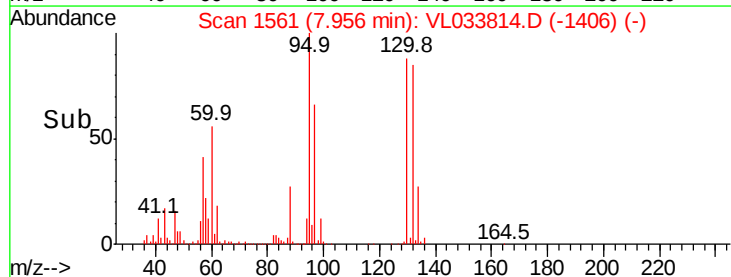
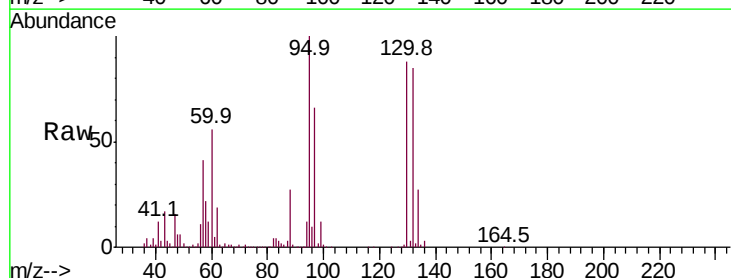
Manual Integrations
 APPROVED

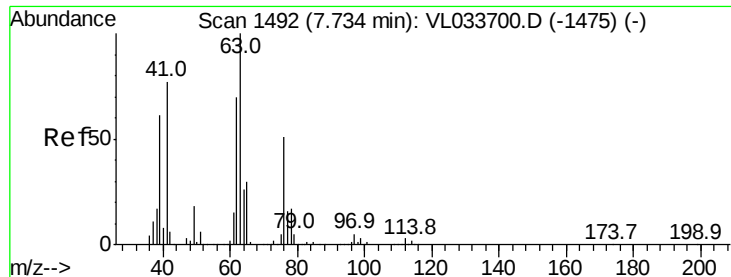
apatel
 5/29/2019 12:40:43 PM



#38
 Trichloroethene
 Concen: 10.938 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. -0.00 min
 Lab File: VL033814.D
 Acq: 28 May 2019 21:53

Tgt Ion:130 Resp: 800271
 Ion Ratio Lower Upper
 130 100
 95 113.6 90.2 135.4
 132 96.2 76.4 114.6
 97 75.3 59.8 89.6





#39

1,2-Dichloropropane

Concen: 9.753 ppbv

RT: 7.73 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Instrument :

MSVOA_L

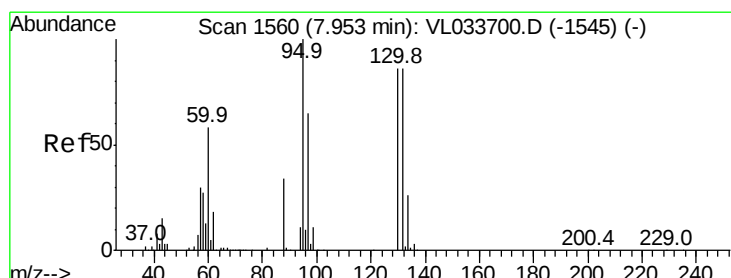
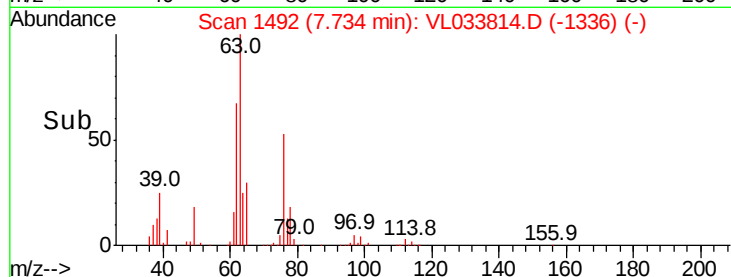
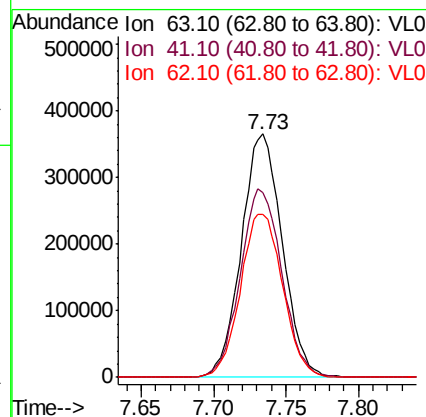
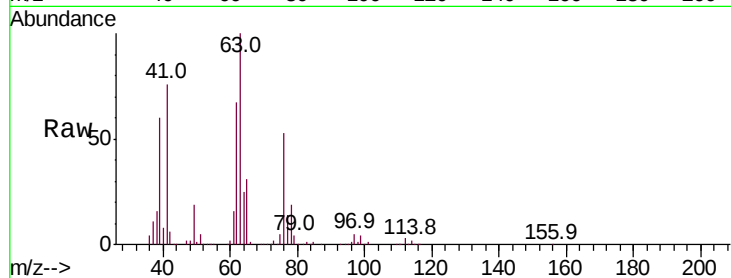
ClientSampleId :

VL0528ABS02DUP

Tot Ion:	63	Resp:	716958
Ion Ratio	Lower	Upper	
63	100		
41	75.9	61.5	92.3
62	66.6	56.2	84.4

Manual Integrations
APPROVED

apatel
5/29/2019 12:40:43 PM



#40

1,4-Dioxane

Concen: 10.271 ppbv

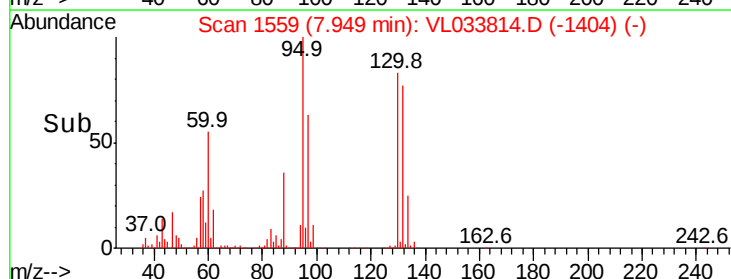
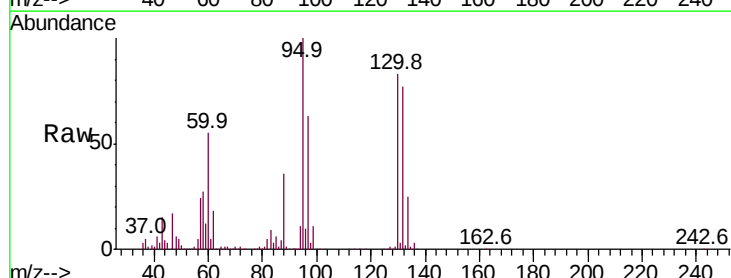
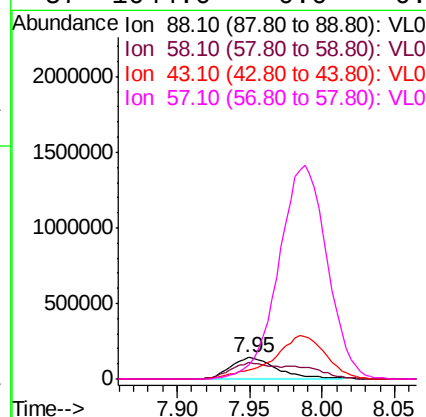
RT: 7.95 min Scan# 1559

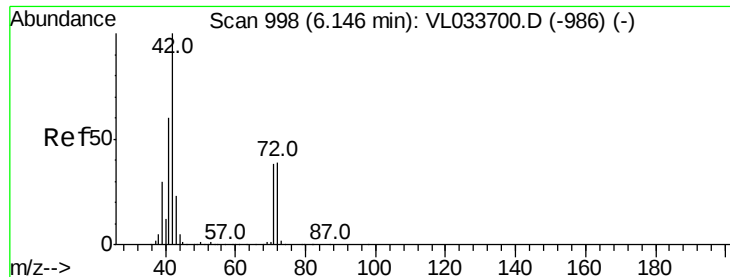
Delta R.T. -0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Tgt Ion:	88	Resp:	315835
Ion Ratio	Lower	Upper	
88	100		
58	120.7	101.8	152.6
43	234.5	0.0	0.0#
57	1044.0	0.0	0.0#





#41

Tetrahydrofuran

Concen: 9.736 ppbv

RT: 6.15 min Scan# 998

Delta R.T. 0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Instrument :

MSVOA_L

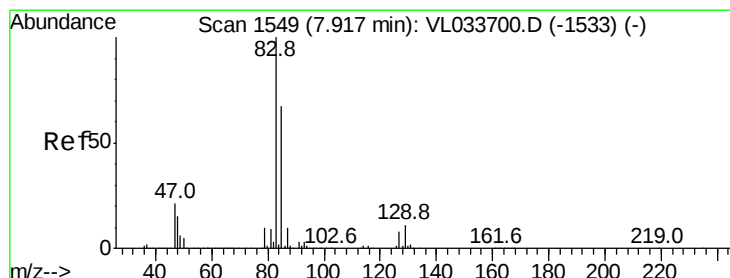
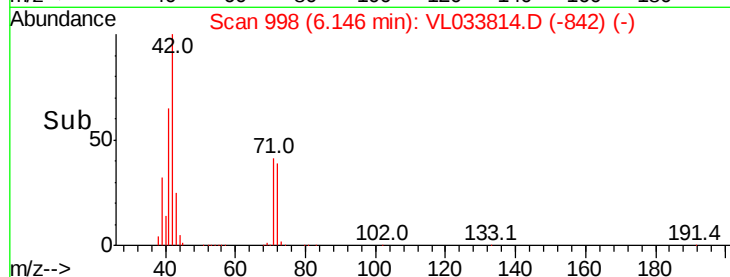
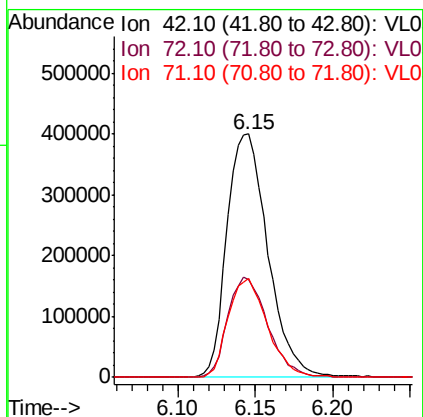
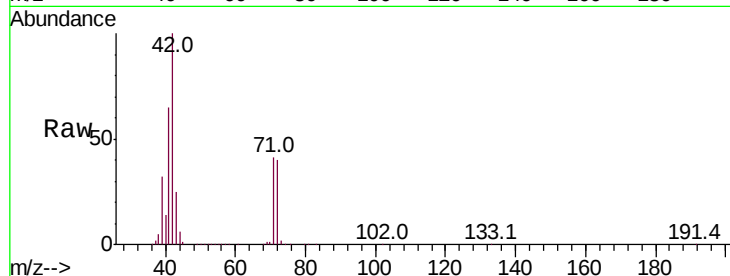
ClientSampleId :

VL0528ABS02DUP

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.6	32.0	48.0
71	39.3	30.4	45.6

Manual Integrations
APPROVED

apatel
5/29/2019 12:40:43 PM



#42

Bromodichloromethane

Concen: 10.023 ppbv

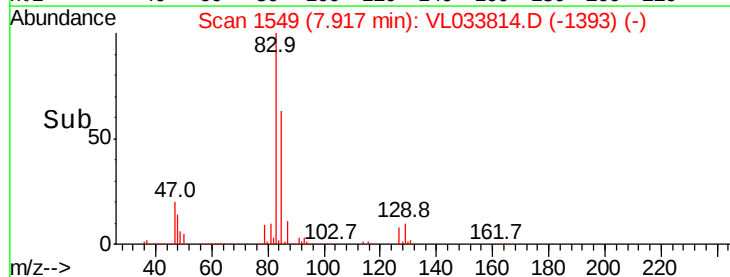
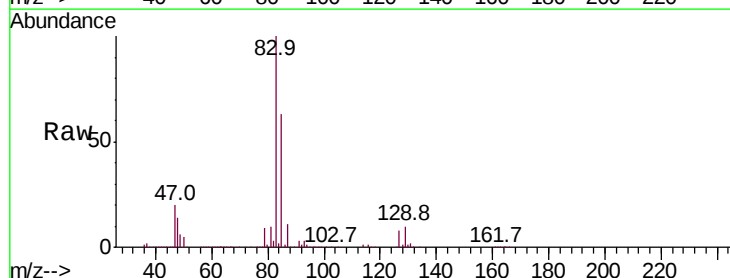
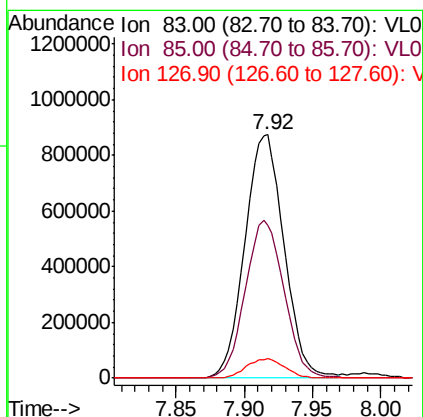
RT: 7.92 min Scan# 1549

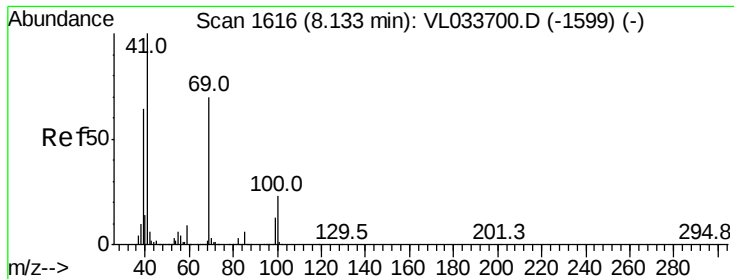
Delta R.T. 0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.6	53.3	79.9
127	7.9	6.5	9.7





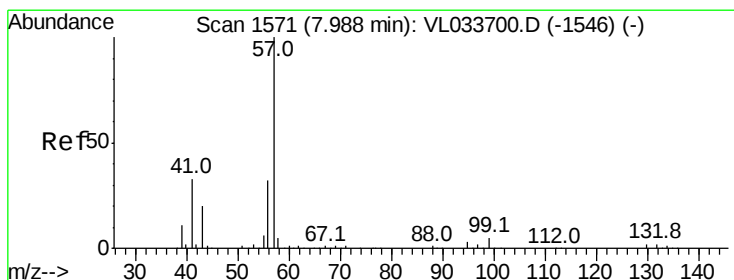
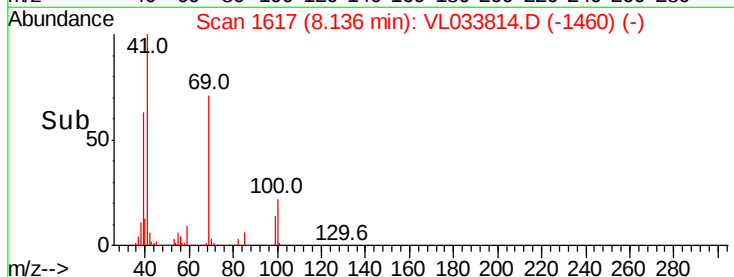
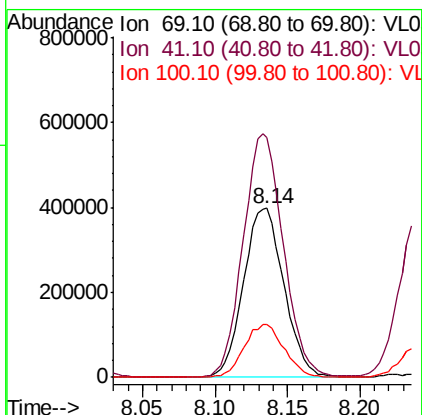
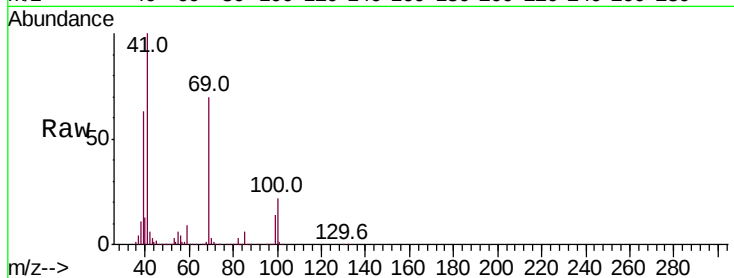
#43
Methvl Methacrvlate
Concen: 10.658 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. 0.00 min
Lab File: VL033814.D
Acq: 28 May 2019 21:53

Instrument :
MSVOA_L
ClientSampleId :
VL0528ABS02DUP

Tot Ion	Ratio	Lower	Upper
69	100		
41	143.0	116.3	174.5
100	30.9	25.3	37.9

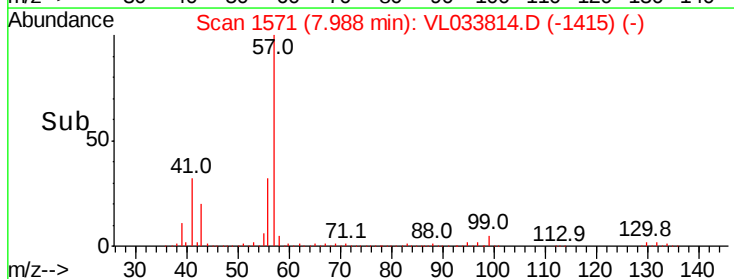
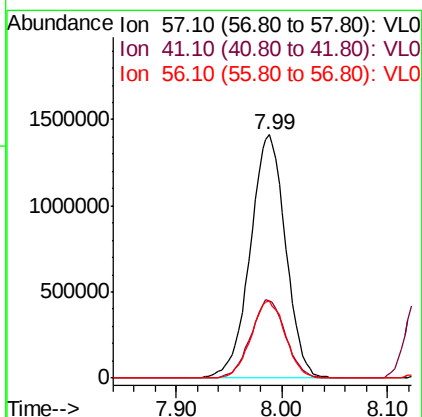
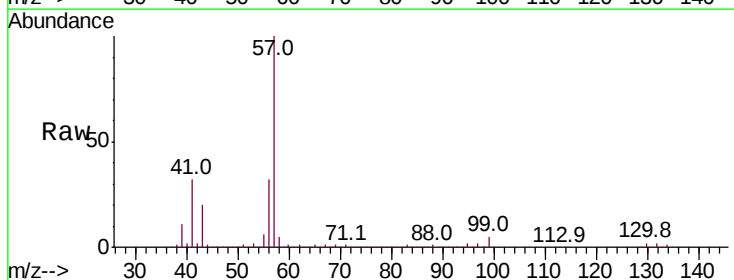
Manual Integrations
APPROVED

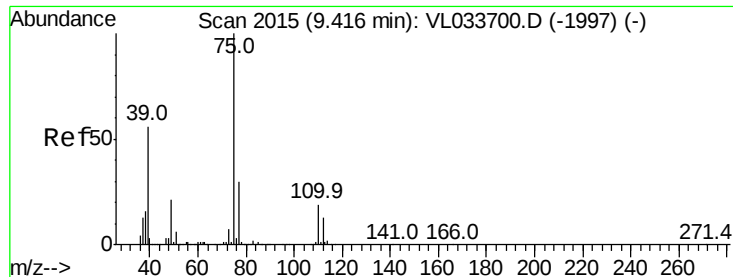
apatel
5/29/2019 12:40:43 PM



#44
2,2,4-Trimethylpentane
Concen: 9.888 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. 0.00 min
Lab File: VL033814.D
Acq: 28 May 2019 21:53

Tgt Ion	Ratio	Lower	Upper
57	100		
41	31.5	25.4	38.0
56	30.7	24.7	37.1





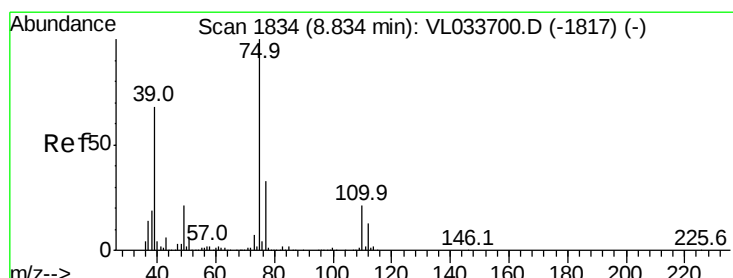
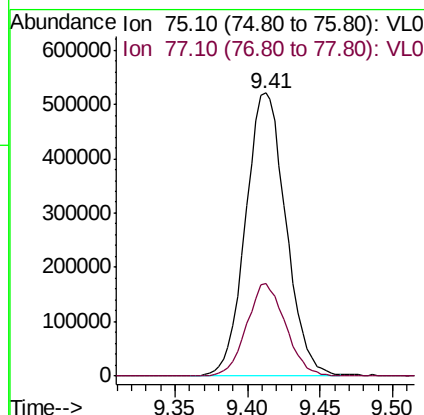
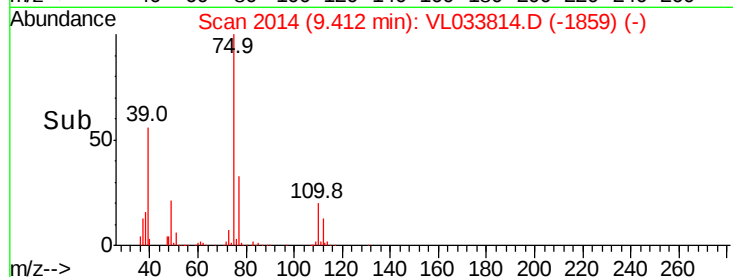
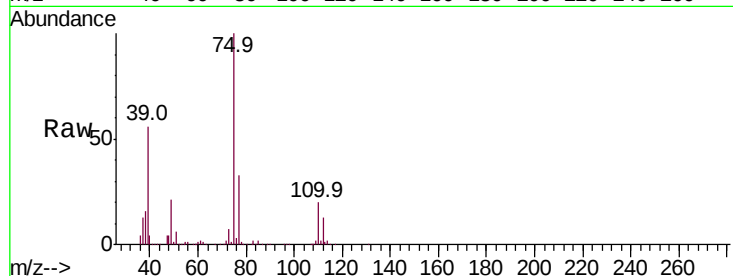
#45
 t-1,3-Dichloropropene
 Concen: 10.952 ppbv
 RT: 9.41 min Scan# 2014
 Delta R.T. -0.00 min
 Lab File: VL033814.D
 Acq: 28 May 2019 21:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0528ABS02DUP

Tot Ion: 75 Resp: 1007447
 Ion Ratio Lower Upper
 75 100
 77 32.6 24.4 36.6

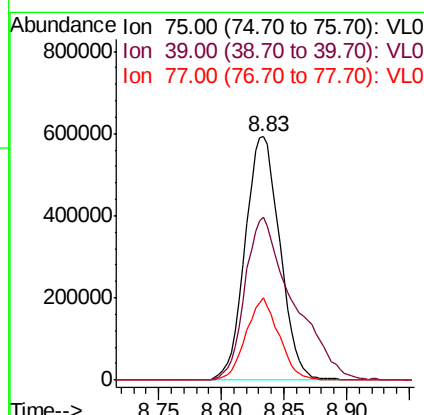
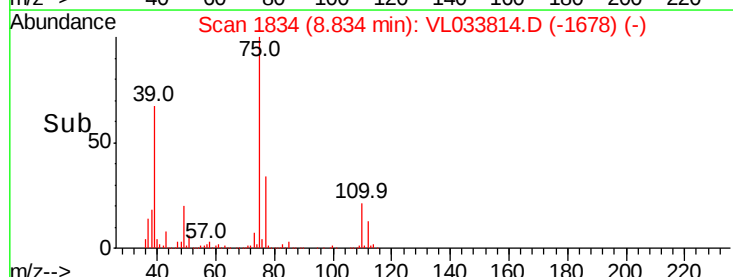
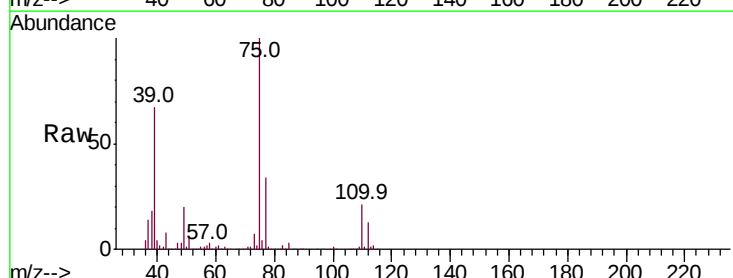
Manual Integrations
 APPROVED

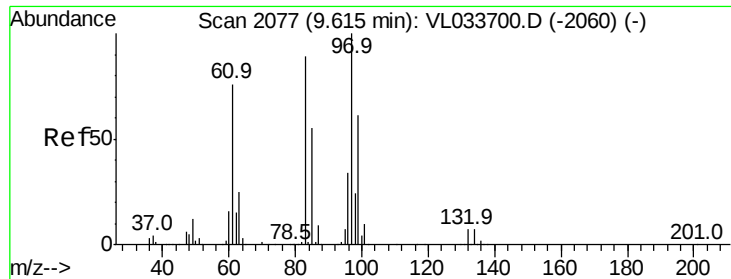
apatel
 5/29/2019 12:40:43 PM



#46
 cis-1,3-Dichloropropene
 Concen: 10.621 ppbv
 RT: 8.83 min Scan# 1834
 Delta R.T. 0.00 min
 Lab File: VL033814.D
 Acq: 28 May 2019 21:53

Tgt Ion: 75 Resp: 1144048
 Ion Ratio Lower Upper
 75 100
 39 67.0 54.4 81.6
 77 33.6 26.6 39.8





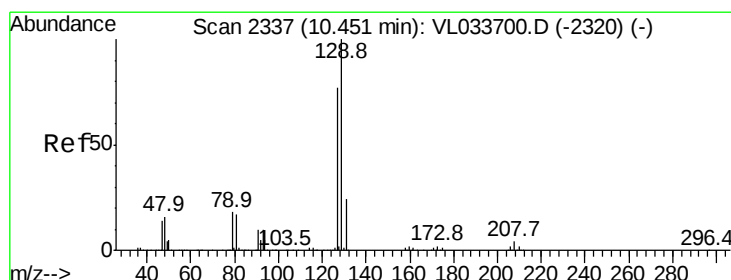
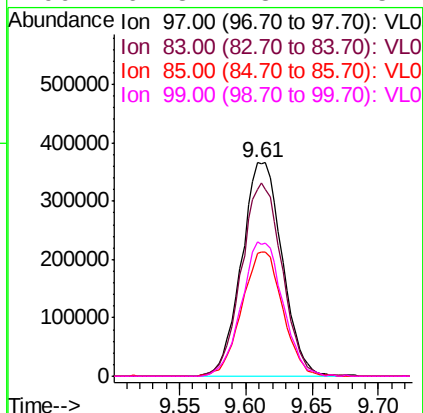
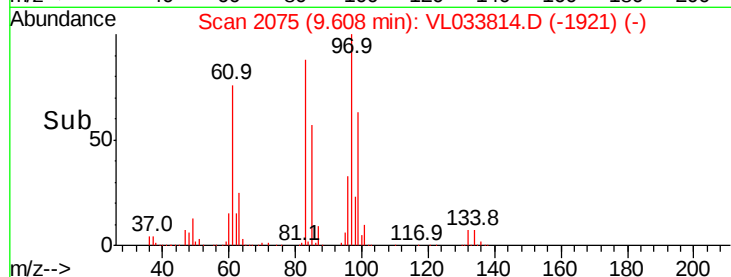
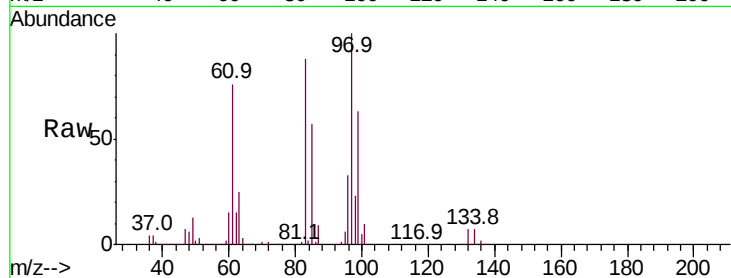
#47
 1,1,2-Trichloroethane
 Concen: 9.355 ppbv
 RT: 9.61 min Scan# 2075
 Delta R.T. -0.01 min
 Lab File: VL033814.D
 Acq: 28 May 2019 21:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0528ABS02DUP

Tot Ion	Ratio	Lower	Upper
97	100		
83	87.7	70.8	106.2
85	57.2	43.7	65.5
99	62.8	48.7	73.1

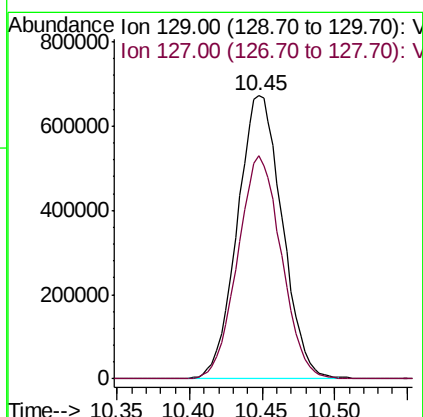
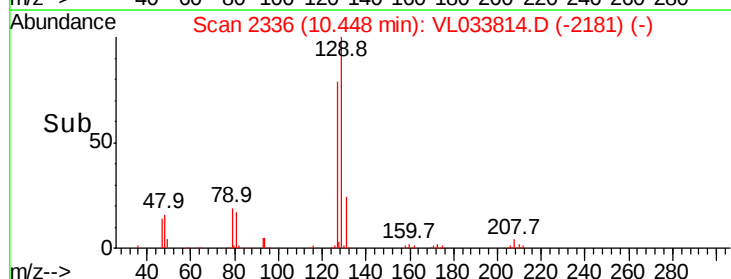
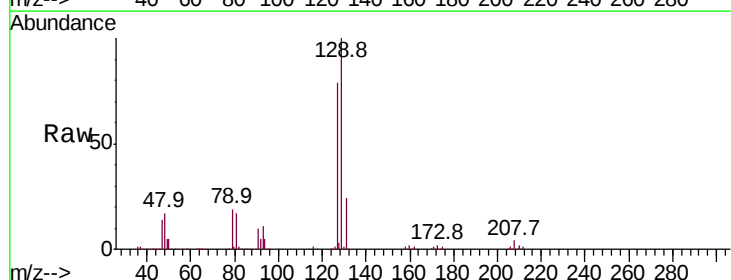
Manual Integrations
 APPROVED

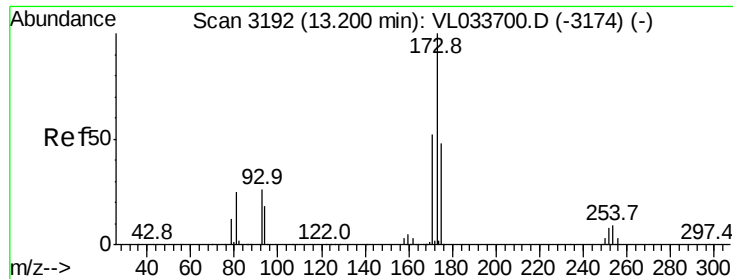
apatel
 5/29/2019 12:40:43 PM



#48
 Dibromochloromethane
 Concen: 9.972 ppbv
 RT: 10.45 min Scan# 2336
 Delta R.T. -0.00 min
 Lab File: VL033814.D
 Acq: 28 May 2019 21:53

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.2	38.6	116.0





#49

Bromoform

Concen: 11.128 ppbv

RT: 13.20 min Scan# 3191

Delta R.T. -0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS02DUP

Tot Ion:173 Resp: 1354845

Ion Ratio Lower Upper

173 100

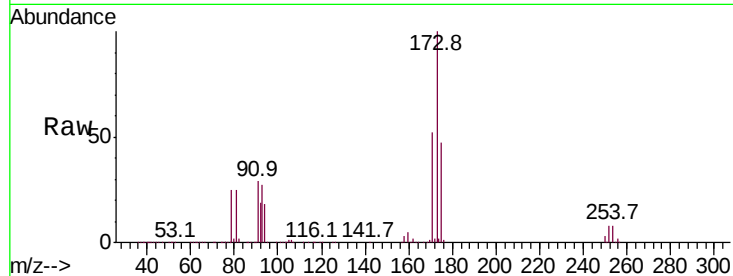
175 48.9 38.6 58.0

171 51.9 41.5 62.3

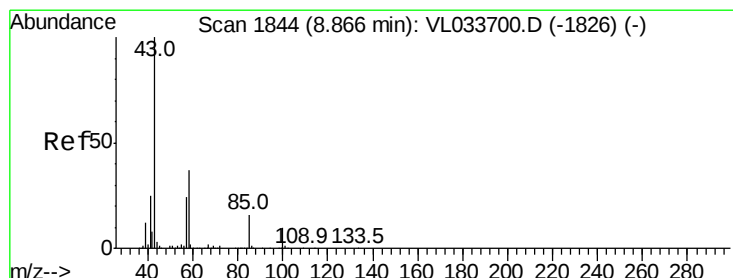
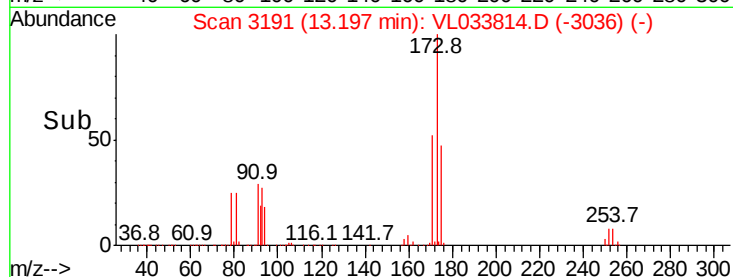
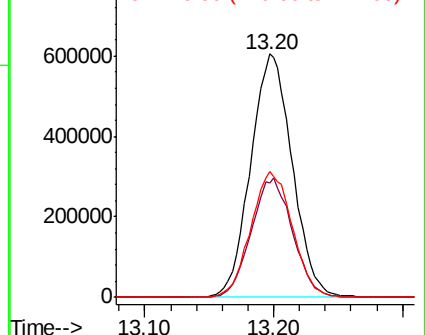
Manual Integrations
APPROVED

apatel

5/29/2019 12:40:43 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: 9.771 ppbv

RT: 8.87 min Scan# 1844

Delta R.T. 0.00 min

Lab File: VL033814.D

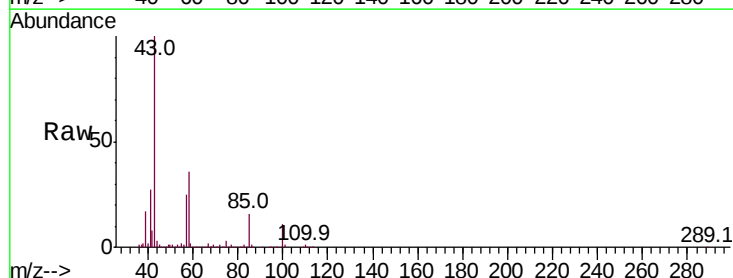
Acq: 28 May 2019 21:53

Tgt Ion: 43 Resp: 2019253

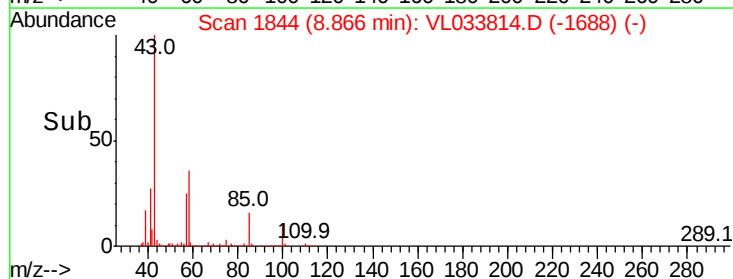
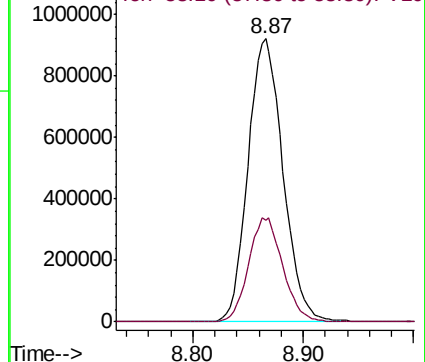
Ion Ratio Lower Upper

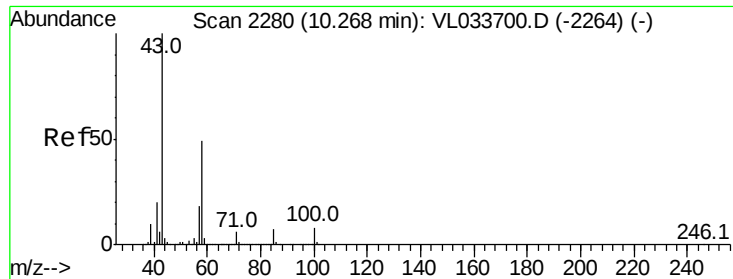
43 100

58 36.1 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: 10.176 ppbv

RT: 10.27 min Scan# 2280

Delta R.T. 0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS02DUP

Tot Ion: 43 Resp: 1641266

Ion Ratio Lower Upper

43 100

58 47.9 38.7 58.1

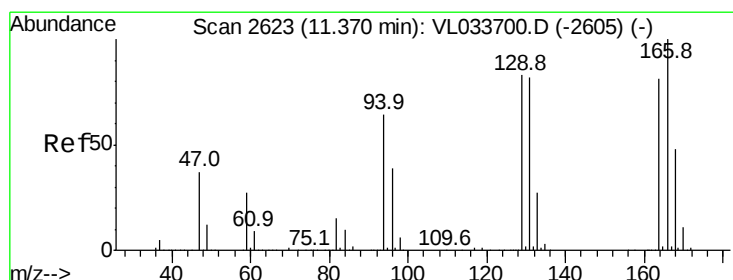
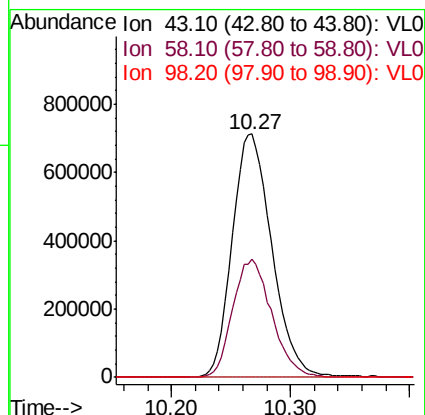
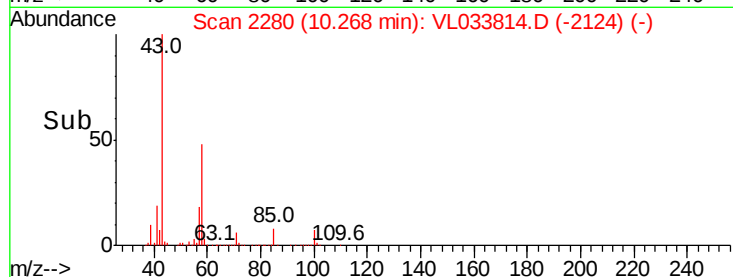
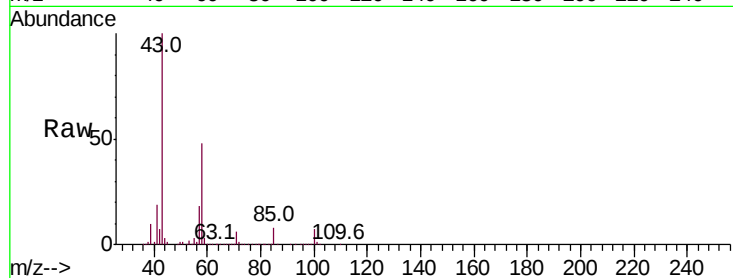
98 0.4 0.2 0.4#

Manual Integrations

APPROVED

apatel

5/29/2019 12:40:43 PM



#52

Tetrachloroethene

Concen: 10.288 ppbv

RT: 11.37 min Scan# 2623

Delta R.T. 0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Tgt Ion: 164 Resp: 713094

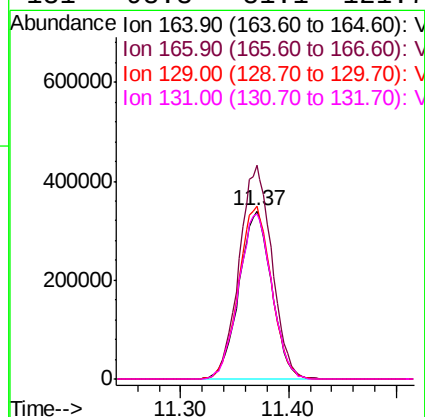
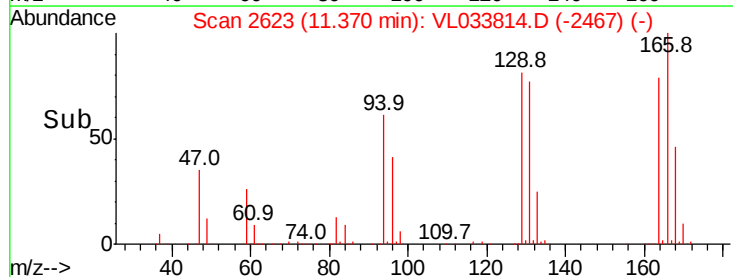
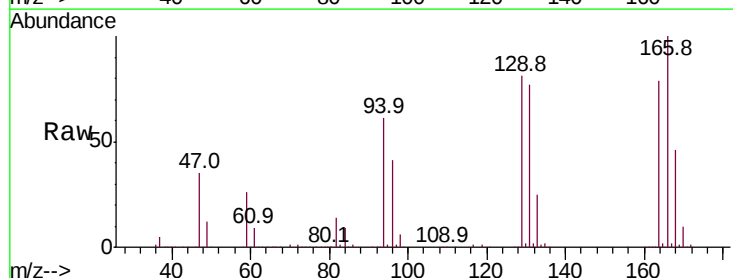
Ion Ratio Lower Upper

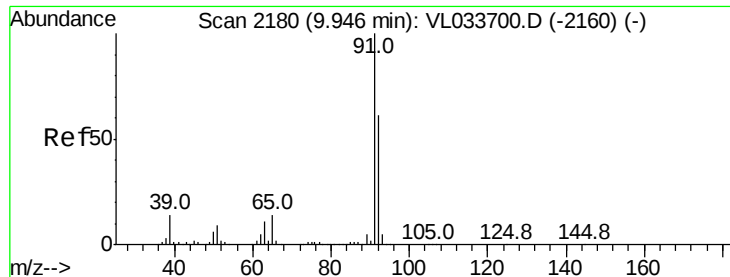
164 100

166 127.3 98.9 148.3

129 102.8 81.8 122.6

131 98.3 81.1 121.7





#53

Toluene

Concen: 10.285 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS02DUP

Tot Ion: 91 Resp: 2187238

Ion Ratio Lower Upper

91 100

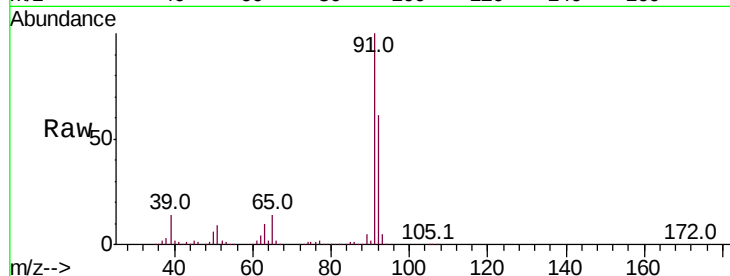
92 59.9 47.6 71.4

Manual Integrations

APPROVED

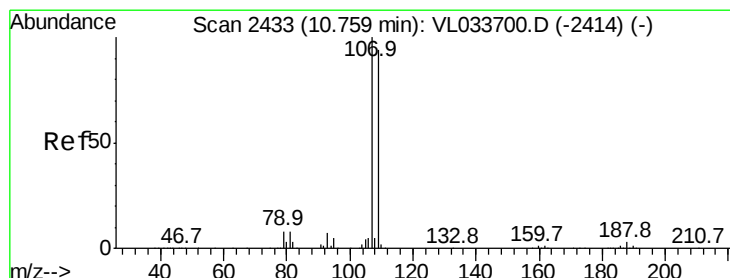
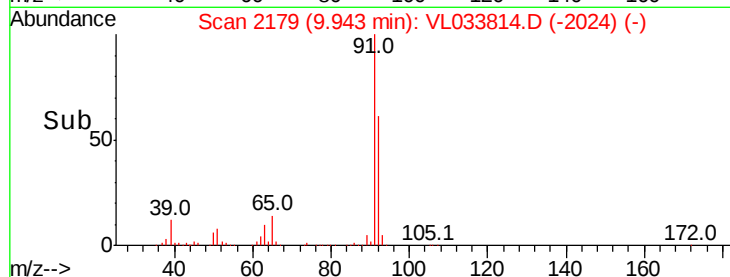
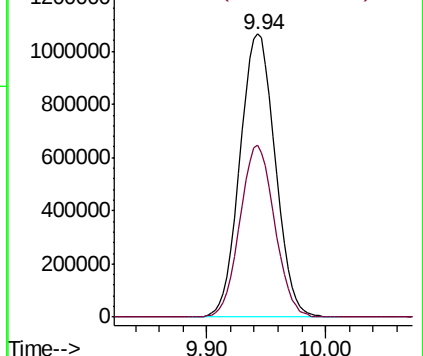
apatel

5/29/2019 12:40:43 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 9.876 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. -0.00 min

Lab File: VL033814.D

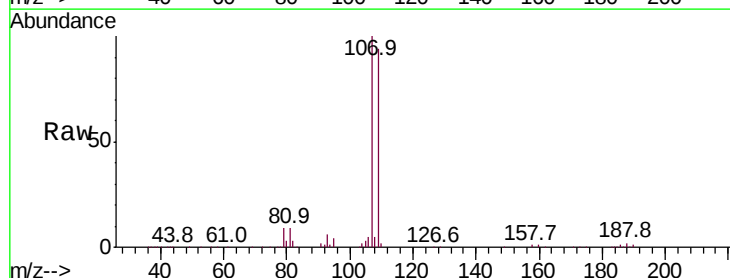
Acq: 28 May 2019 21:53

Tgt Ion:107 Resp: 1258572

Ion Ratio Lower Upper

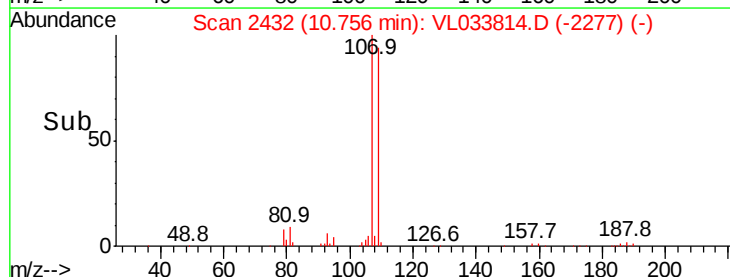
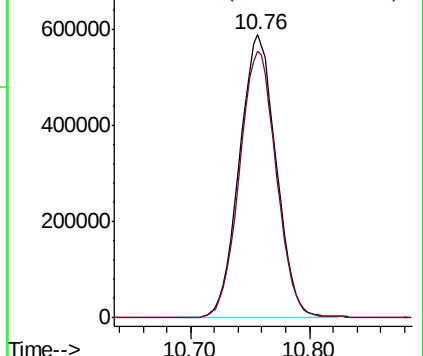
107 100

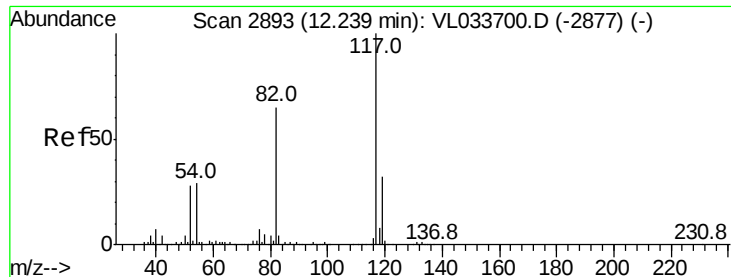
109 94.4 75.2 112.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.24 min Scan# 2892

Delta R.T. -0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS02DUP

Tot Ion:117 Resp: 2284255

Ion Ratio Lower Upper

117 100

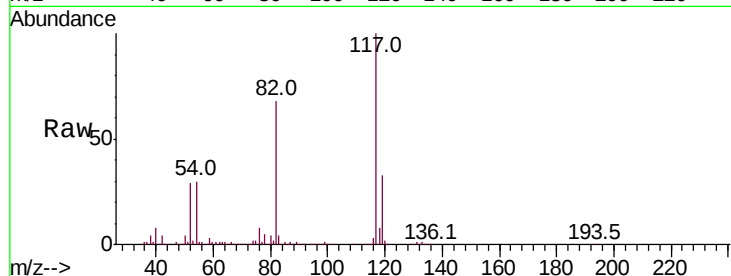
82 61.2 49.4 74.0

119 28.2 24.9 37.3

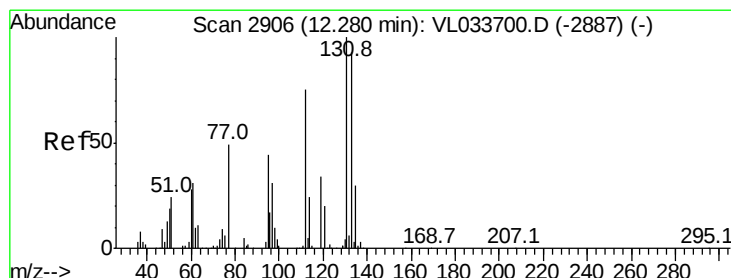
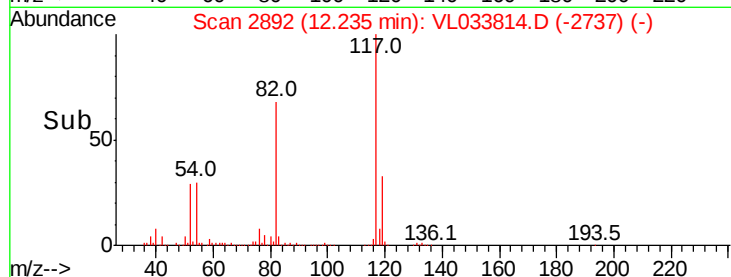
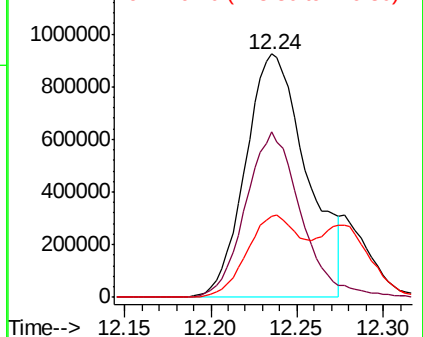
Manual Integrations
APPROVED

apatel

5/29/2019 12:40:43 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: 9.120 ppbv

RT: 12.27 min Scan# 2904

Delta R.T. -0.01 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

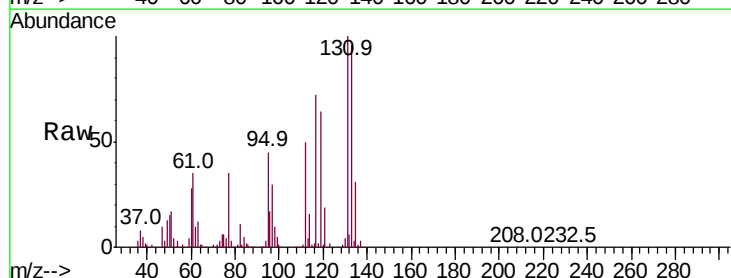
Tgt Ion:131 Resp: 963990

Ion Ratio Lower Upper

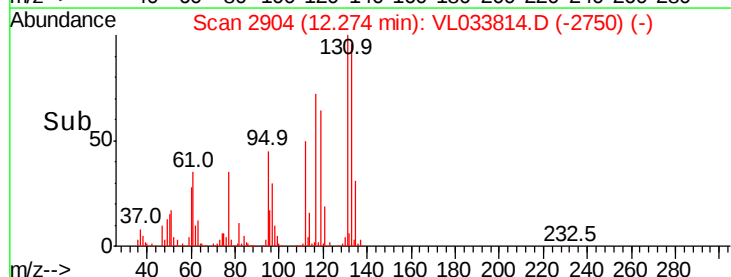
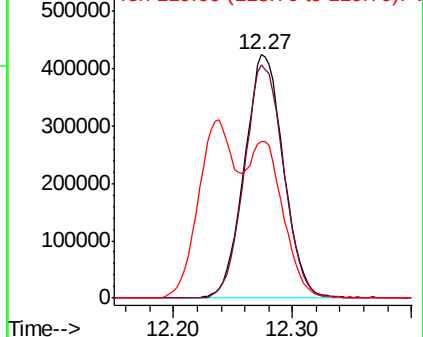
131 100

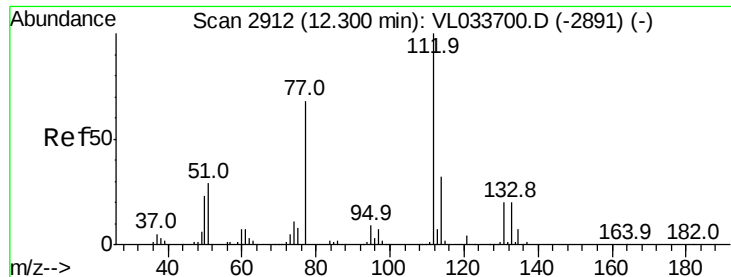
133 96.4 76.6 114.8

119 54.3 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





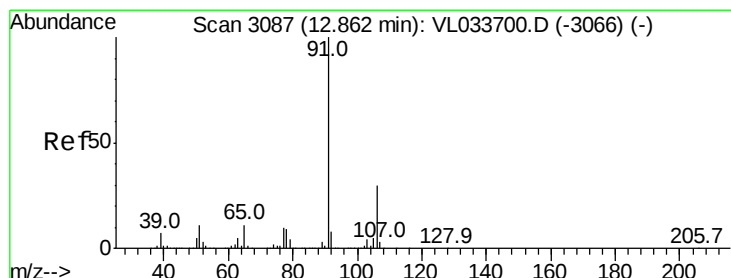
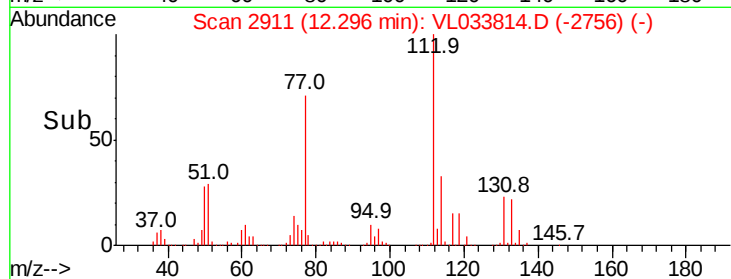
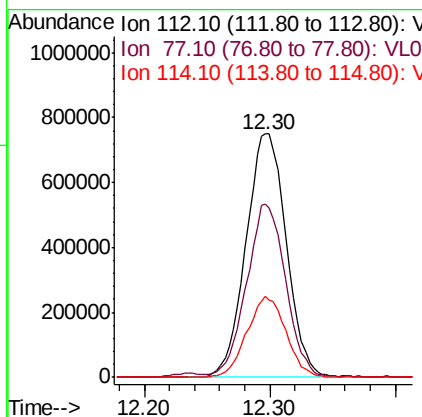
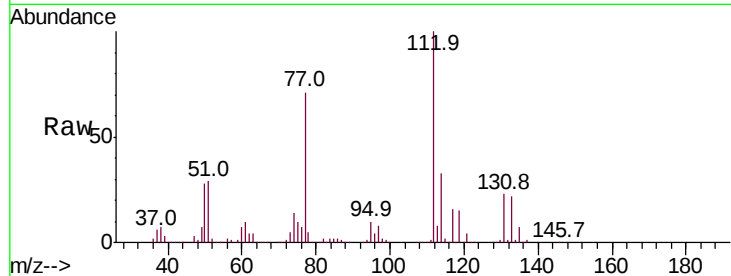
#57
Chlorobenzene
Concen: 8.921 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. -0.00 min
Lab File: VL033814.D
Acq: 28 May 2019 21:53

Instrument :
MSVOA_L
ClientSampleId :
VL0528ABS02DUP

Tot Ion:	112	Resp:	1677435
Ion	Ratio	Lower	Upper
112	100		
77	70.9	55.4	83.0
114	33.4	29.3	35.8

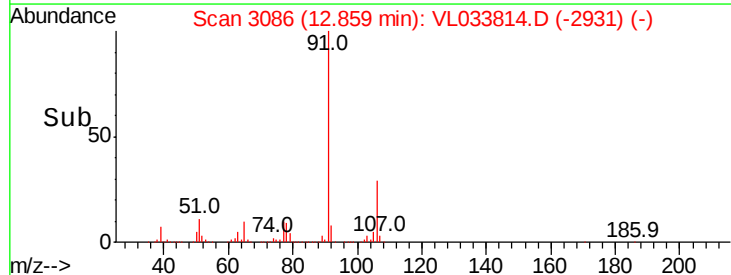
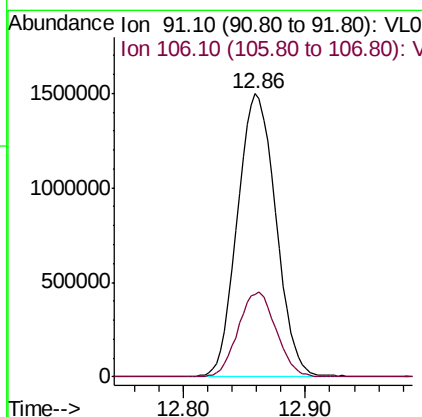
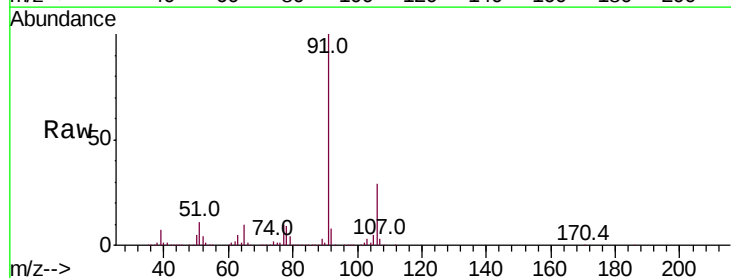
Manual Integrations
APPROVED

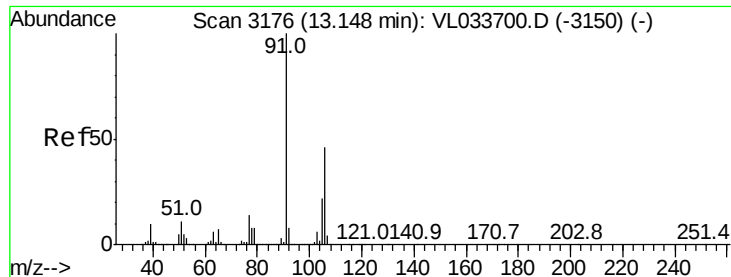
apatel
5/29/2019 12:40:43 PM



#58
Ethyl Benzene
Concen: 10.792 ppbv
RT: 12.86 min Scan# 3086
Delta R.T. -0.00 min
Lab File: VL033814.D
Acq: 28 May 2019 21:53

Tgt Ion:	91	Resp:	3264632
Ion	Ratio	Lower	Upper
91	100		
106	29.3	23.9	35.9





#59

m/p-Xylene

Concen: 20.308 ppbv m

RT: 13.15 min Scan# 3175

Delta R.T. -0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS02DUP

Tot Ion: 91 Resp: 5369977

Ion Ratio Lower Upper

91 100

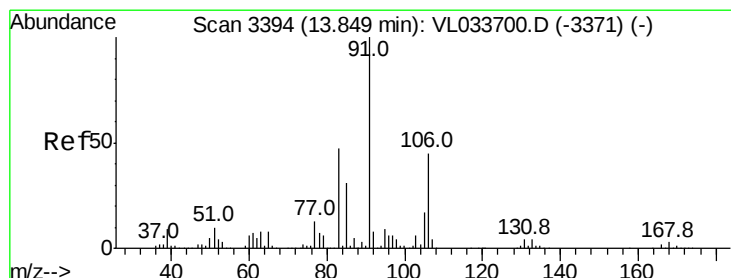
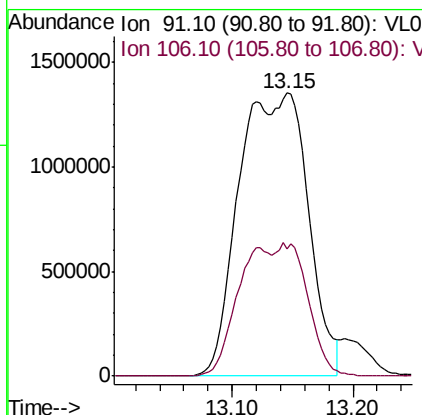
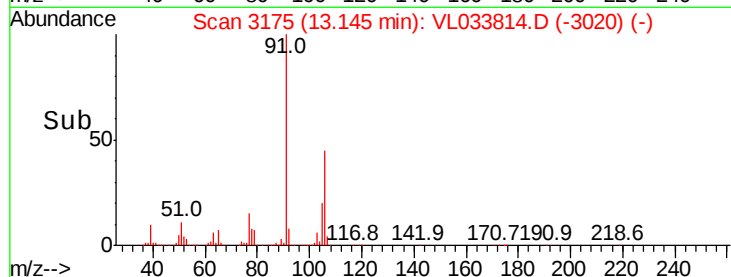
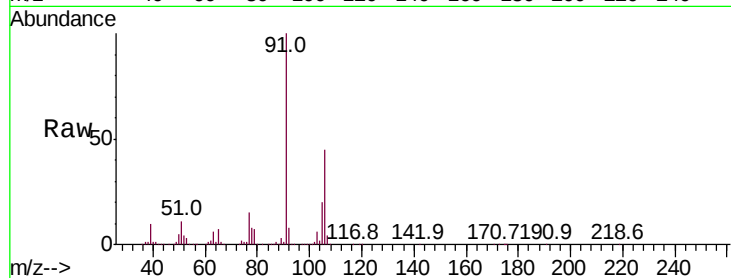
106 45.9 35.8 53.6

Manual Integrations

APPROVED

apatel

5/29/2019 12:40:43 PM



#60

o-Xylene

Concen: 9.922 ppbv

RT: 13.85 min Scan# 3393

Delta R.T. -0.00 min

Lab File: VL033814.D

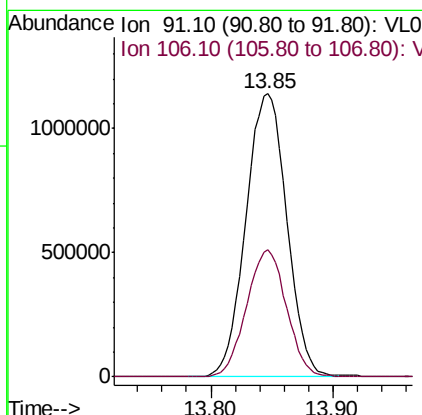
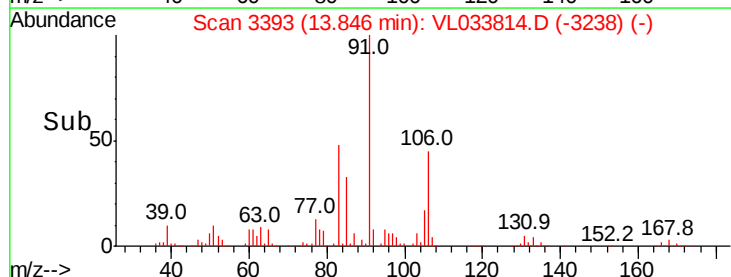
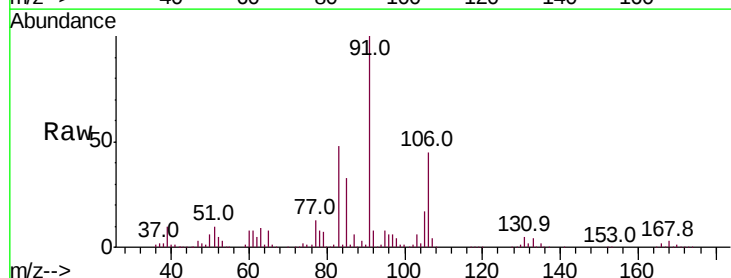
Acq: 28 May 2019 21:53

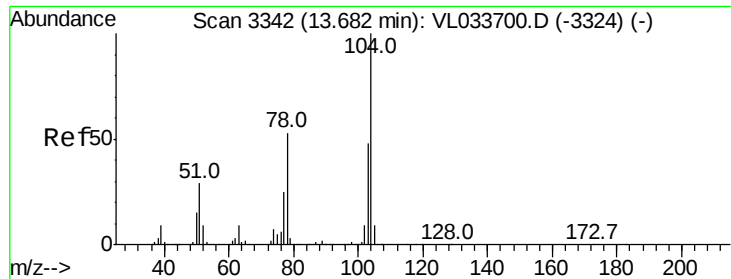
Tgt Ion: 91 Resp: 2644819

Ion Ratio Lower Upper

91 100

106 43.8 21.6 64.8





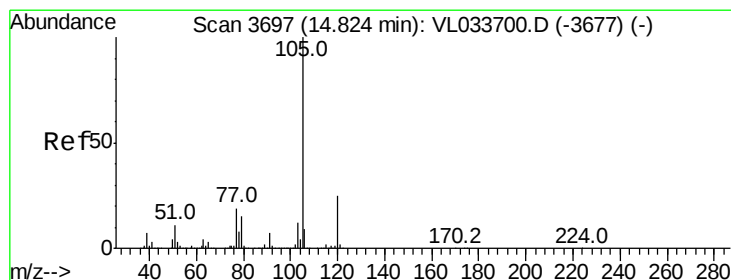
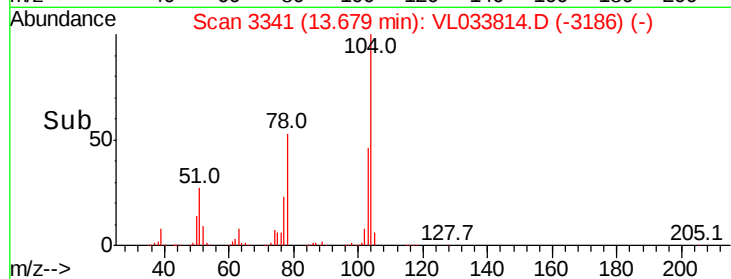
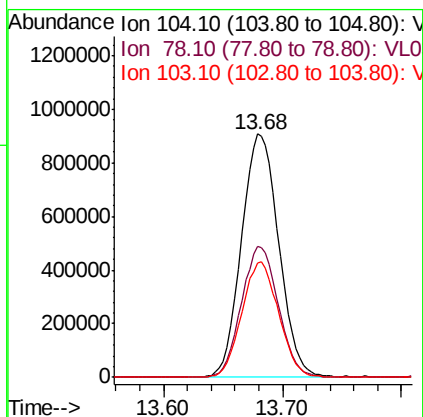
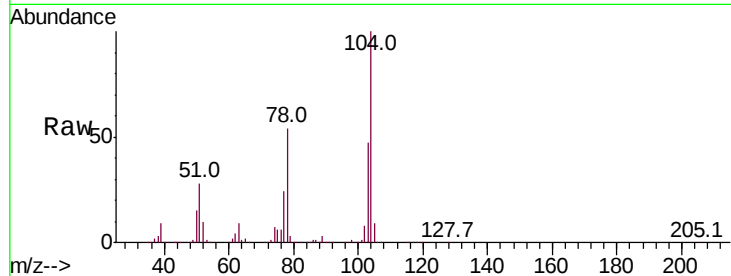
#61
Stvrene
Concen: 10.969 ppbv
RT: 13.68 min Scan# 3341
Delta R.T. -0.00 min
Lab File: VL033814.D
Acq: 28 May 2019 21:53

Instrument :
MSVOA_L
ClientSampleId :
VL0528ABS02DUP

Tot Ion:104 Resp: 1968606
Ion Ratio Lower Upper
104 100
78 53.3 42.6 64.0
103 47.0 37.8 56.6

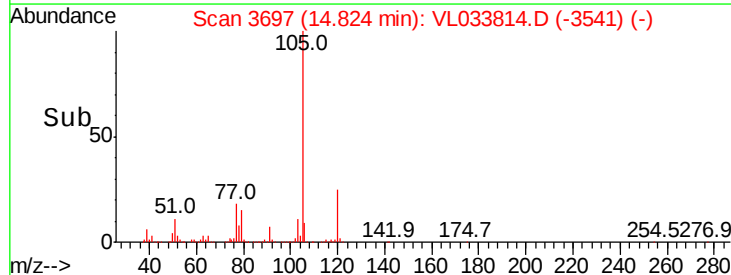
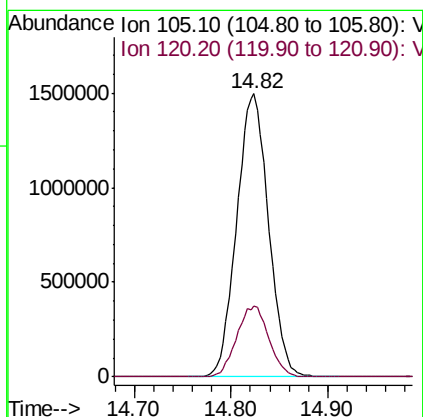
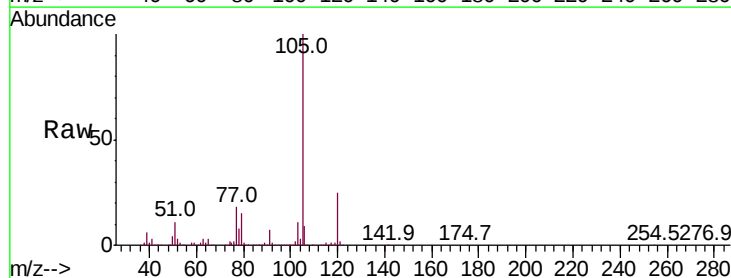
Manual Integrations
APPROVED

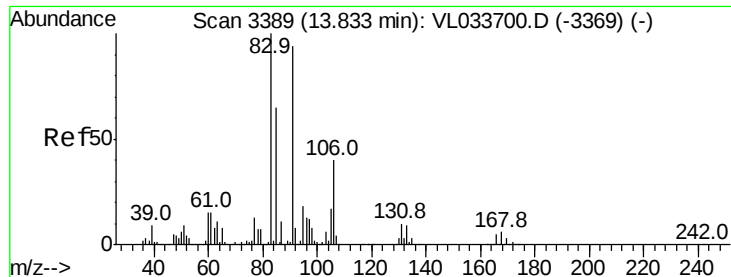
apatel
5/29/2019 12:40:43 PM



#62
Isopropylbenzene
Concen: 9.510 ppbv
RT: 14.82 min Scan# 3697
Delta R.T. 0.00 min
Lab File: VL033814.D
Acq: 28 May 2019 21:53

Tgt Ion:105 Resp: 3413682
Ion Ratio Lower Upper
105 100
120 25.2 20.1 30.1





#63

1,1,2,2-Tetrachloroethane

Concen: 9.456 ppbv

RT: 13.83 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS02DUP

Tot Ion: 83 Resp: 1832974

Ion Ratio Lower Upper

83 100

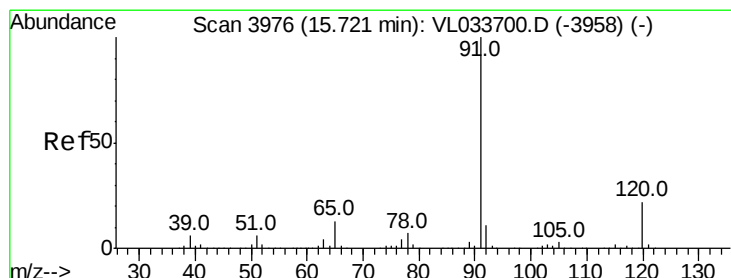
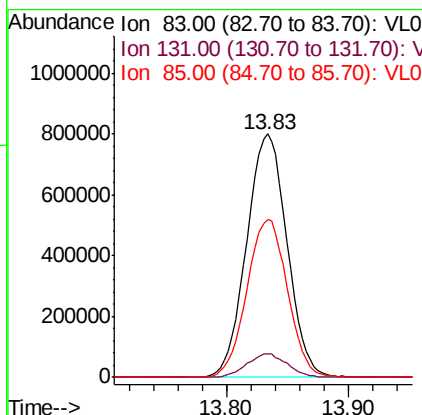
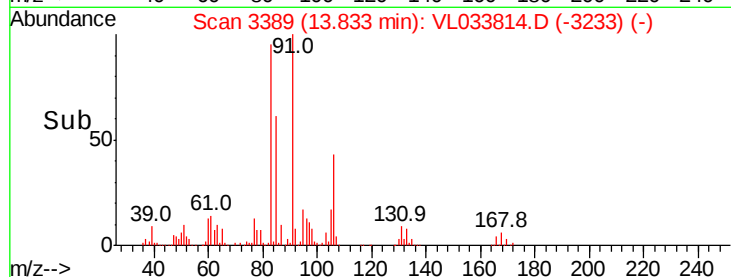
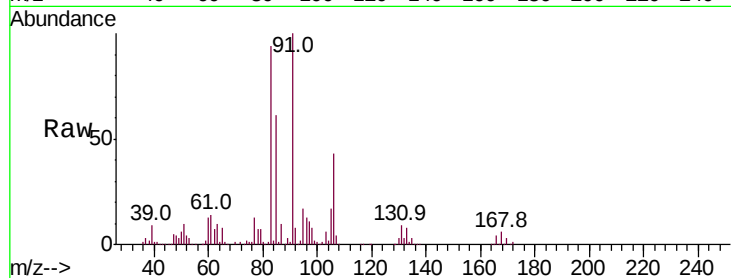
131 9.6 4.8 14.3

85 65.3 32.3 96.9

Manual Integrations
APPROVED

apatel

5/29/2019 12:40:43 PM



#64

n-propylbenzene

Concen: 9.481 ppbv

RT: 15.72 min Scan# 3975

Delta R.T. -0.00 min

Lab File: VL033814.D

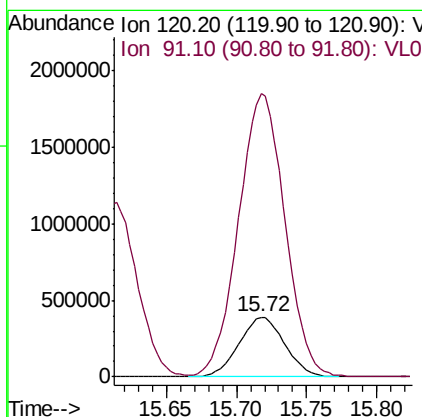
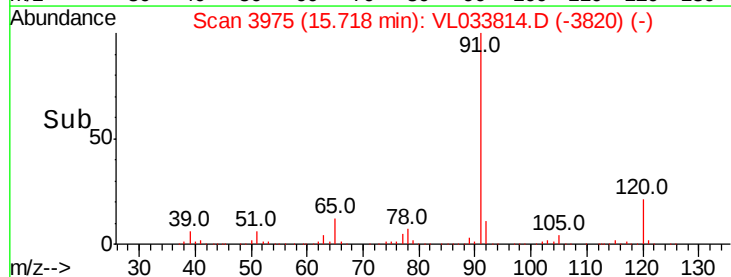
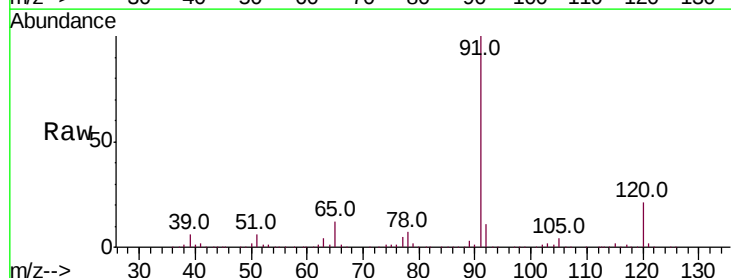
Acq: 28 May 2019 21:53

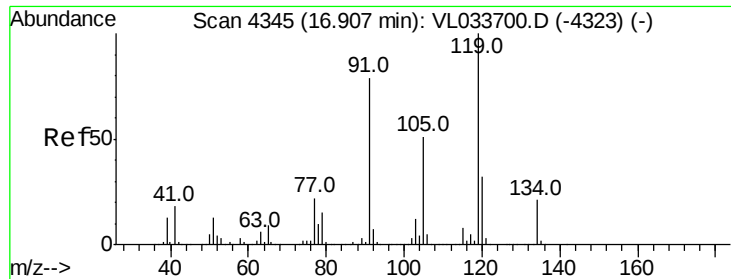
Tgt Ion: 120 Resp: 880363

Ion Ratio Lower Upper

120 100

91 483.7 379.1 568.7





#65

tert-Butylbenzene

Concen: 9.699 ppbv

RT: 16.90 min Scan# 4344

Delta R.T. -0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS02DUP

Tot Ion:119 Resp: 3178950

Ion Ratio Lower Upper

119 100

91 82.4 65.3 97.9

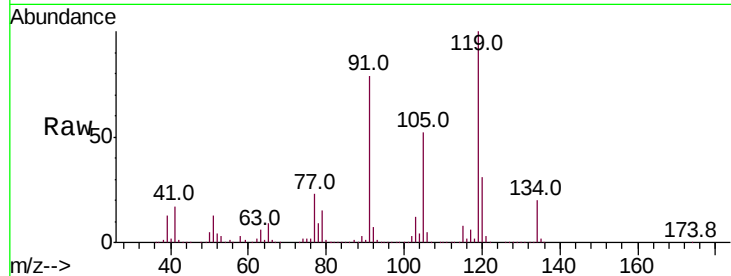
134 19.6 15.7 23.5

Manual Integrations

APPROVED

apatel

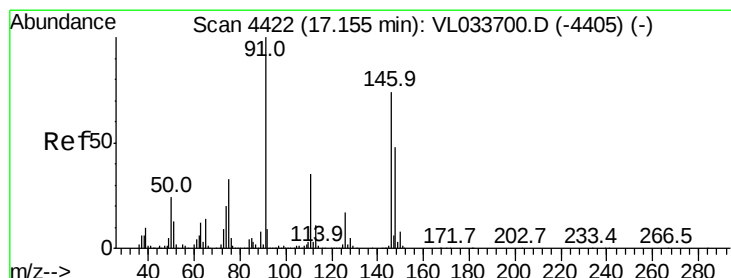
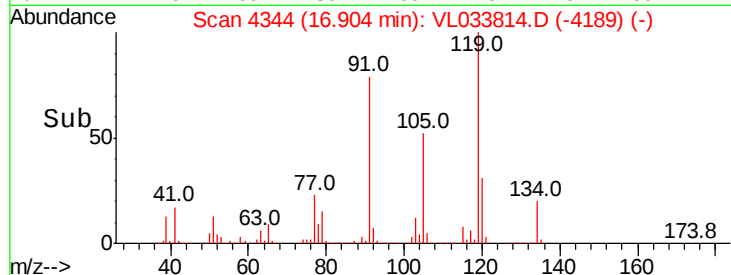
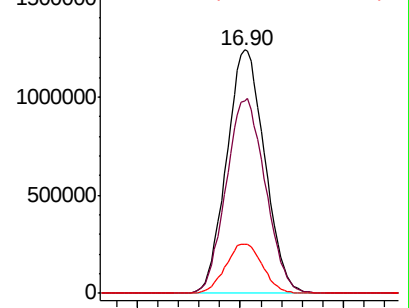
5/29/2019 12:40:43 PM



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: 10.325 ppbv

RT: 17.15 min Scan# 4421

Delta R.T. -0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

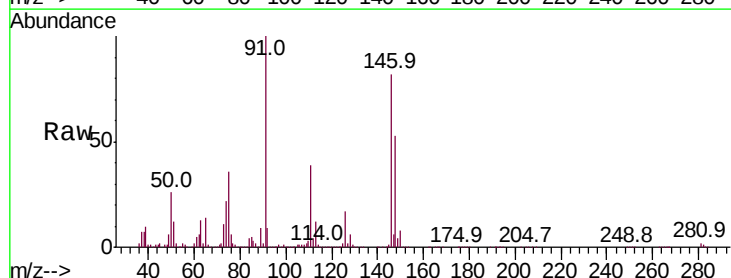
Tgt Ion: 91 Resp: 1611698

Ion Ratio Lower Upper

91 100

126 16.8 13.5 20.3

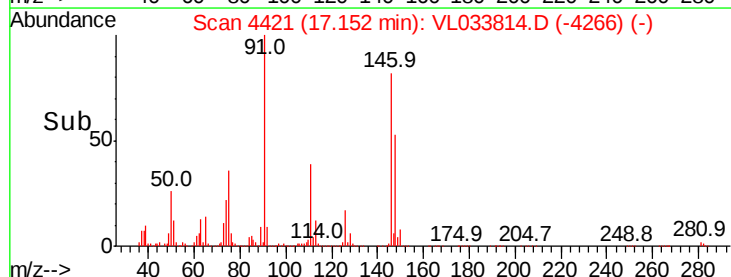
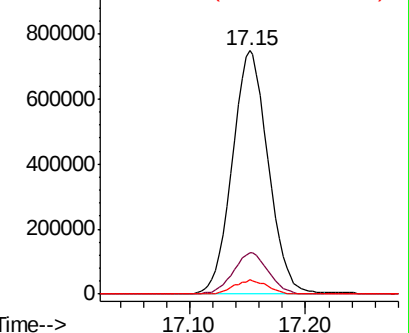
128 5.5 4.3 6.5

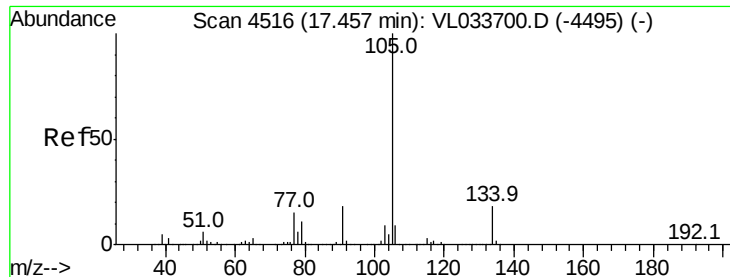


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.745 ppbv

RT: 17.45 min Scan# 4515

Delta R.T. -0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS02DUP

Tot Ion:105 Resp: 4470349

Ion Ratio Lower Upper

105 100

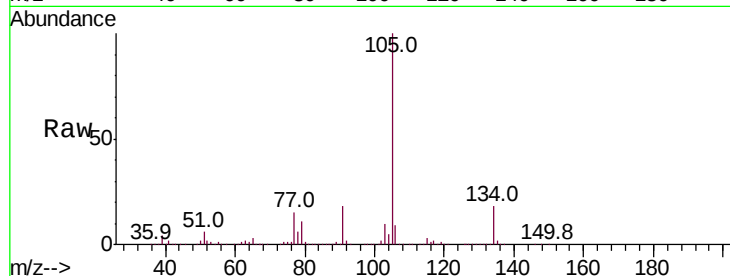
134 18.0 14.6 22.0

Manual Integrations

APPROVED

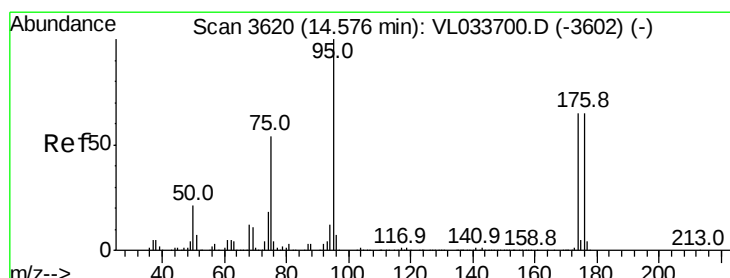
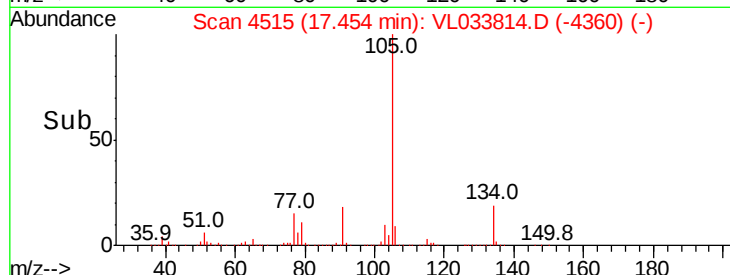
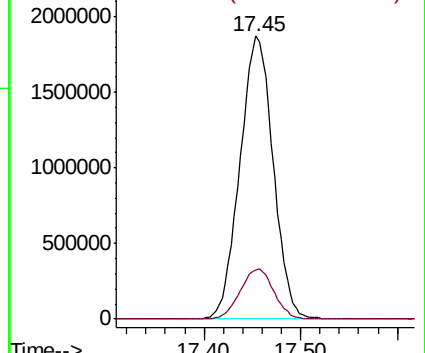
apatel

5/29/2019 12:40:43 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.157 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

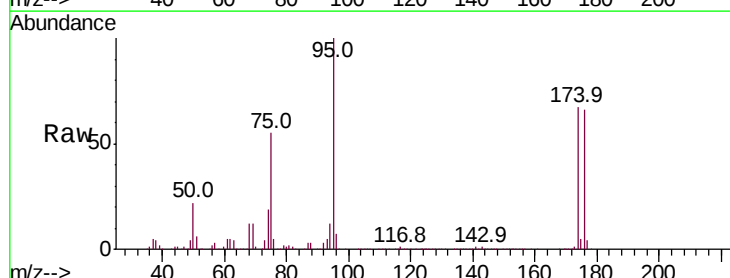
Tgt Ion: 95 Resp: 1695744

Ion Ratio Lower Upper

95 100

174 67.2 53.9 80.9

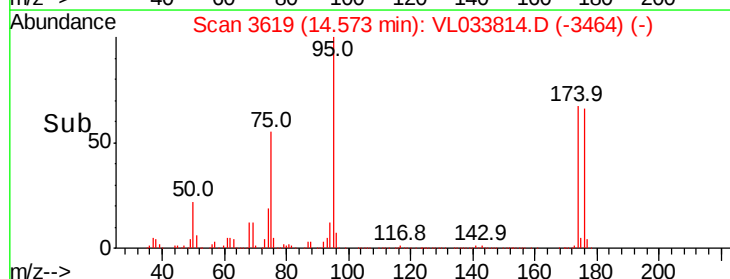
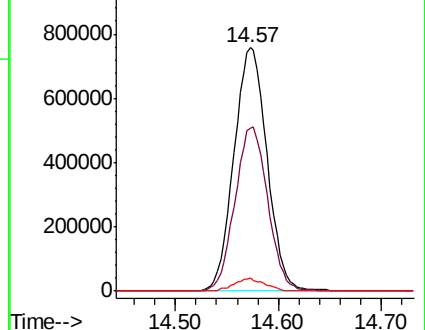
175 4.9 3.8 5.8

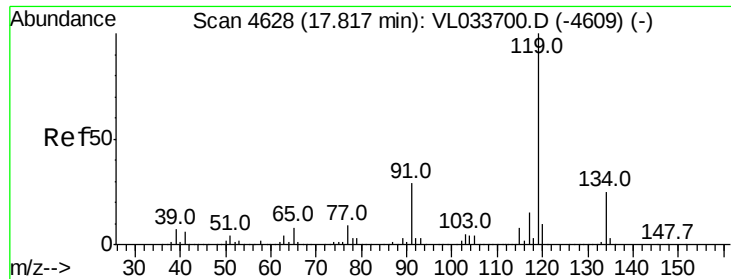


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





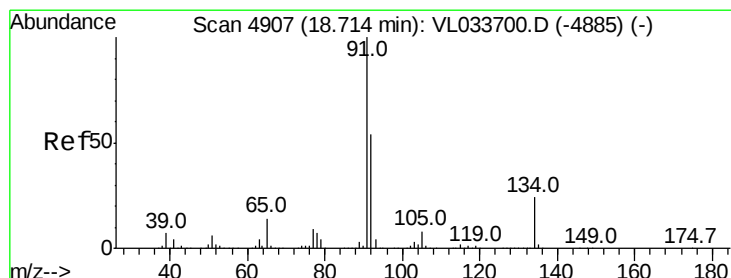
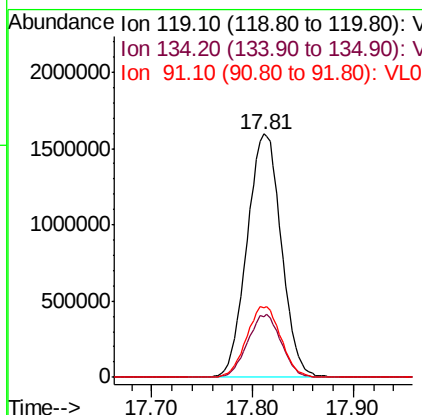
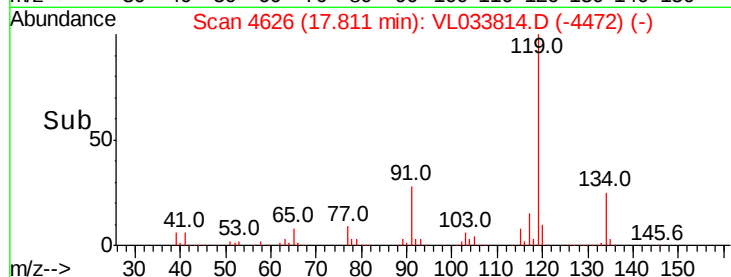
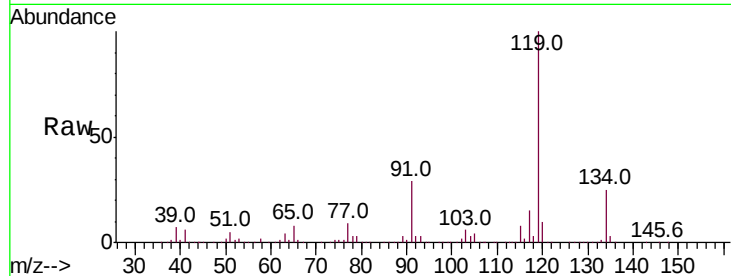
#69
 p-Isopropyltoluene
 Concen: 9.890 ppbv
 RT: 17.81 min Scan# 4626
 Delta R.T. -0.01 min
 Lab File: VL033814.D
 Acq: 28 May 2019 21:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0528ABS02DUP

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.3	30.5
91	29.3	23.1	34.7

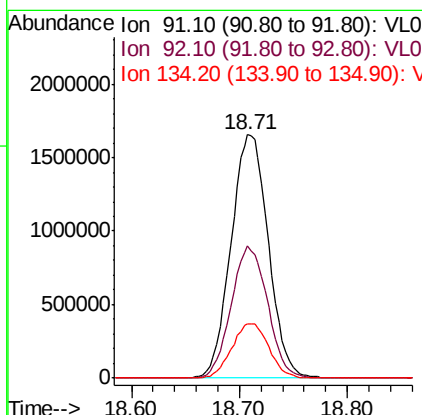
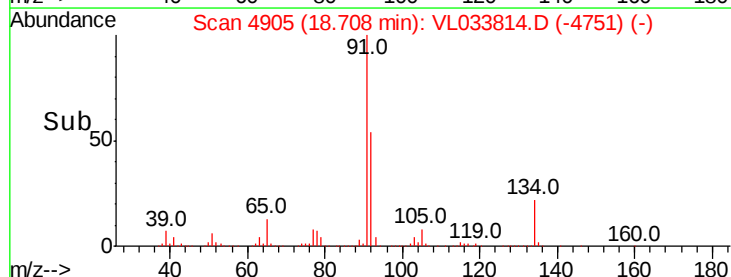
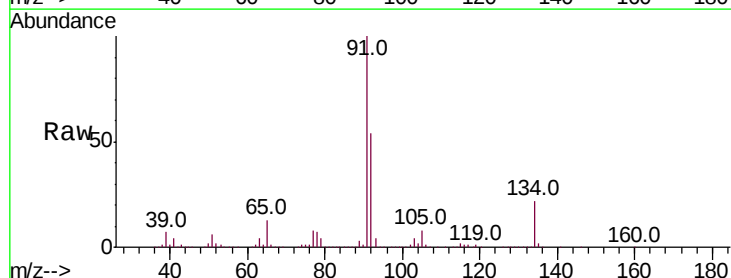
Manual Integrations
 APPROVED

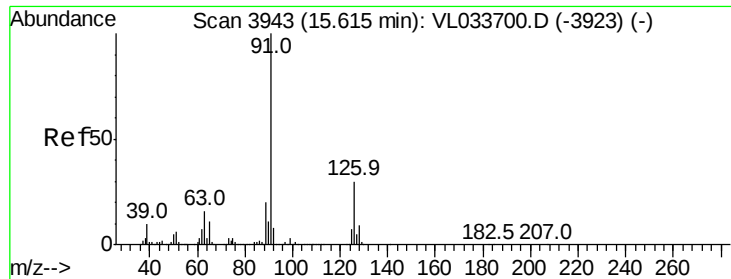
apatel
 5/29/2019 12:40:43 PM



#70
 n-Butylbenzene
 Concen: 9.767 ppbv
 RT: 18.71 min Scan# 4905
 Delta R.T. -0.01 min
 Lab File: VL033814.D
 Acq: 28 May 2019 21:53

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.2	42.6	63.8
134	22.4	18.1	27.1





#71

2-Chlorotoluene

Concen: 9.799 ppbv

RT: 15.61 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS02DUP

Tot Ion: 91 Resp: 2609714

Ion Ratio Lower Upper

91 100

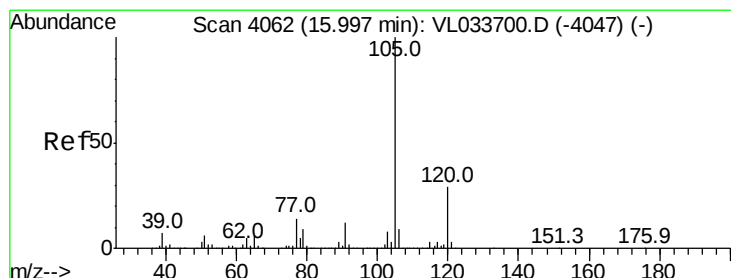
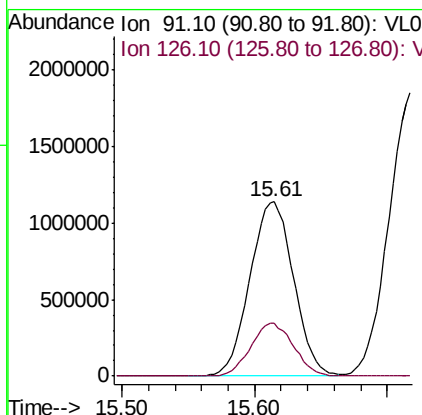
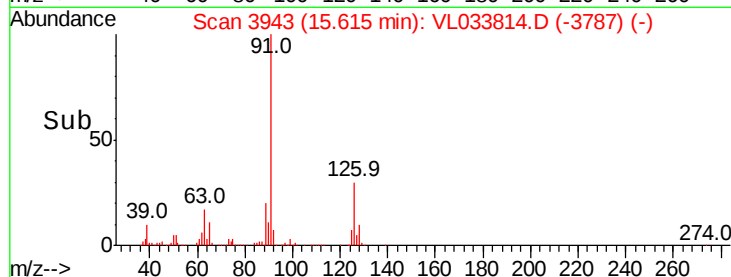
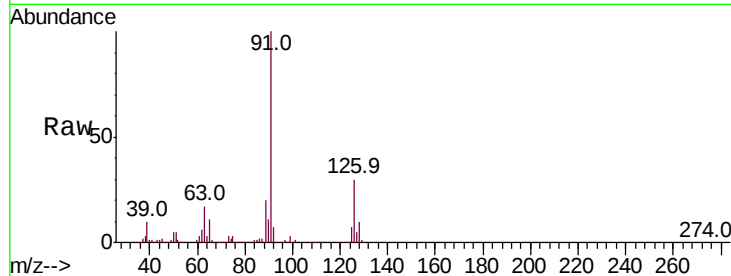
126 30.0 12.0 47.8

Manual Integrations

APPROVED

apatel

5/29/2019 12:40:43 PM



#72

4-Ethyltoluene

Concen: 9.998 ppbv

RT: 15.99 min Scan# 4061

Delta R.T. -0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Tgt Ion:105 Resp: 3047163

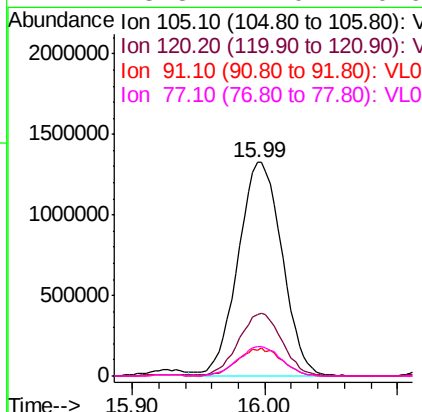
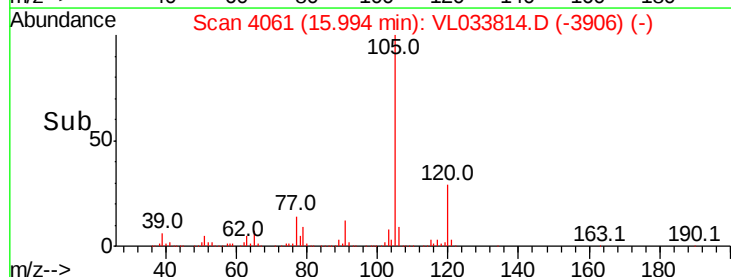
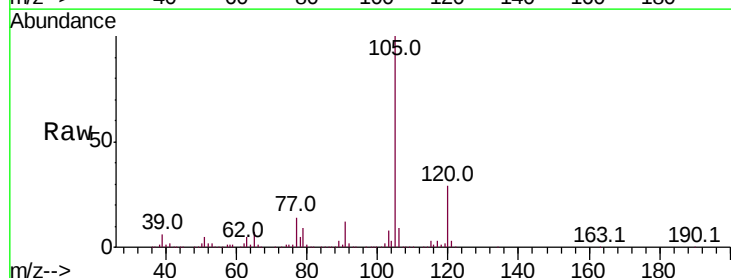
Ion Ratio Lower Upper

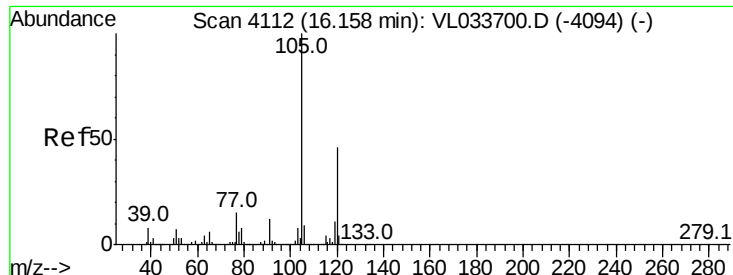
105 100

120 29.0 23.1 34.7

91 13.0 10.4 15.6

77 13.8 11.0 16.6





#73

1,3,5-Trimethylbenzene

Concen: 9.796 ppbv

RT: 16.15 min Scan# 4111

Delta R.T. -0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS02DUP

Tot Ion:105 Resp: 2913135

Ion Ratio Lower Upper

105 100

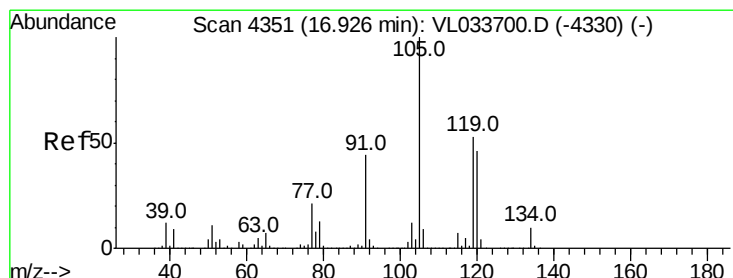
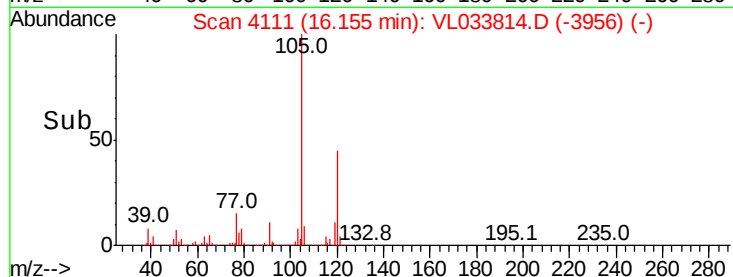
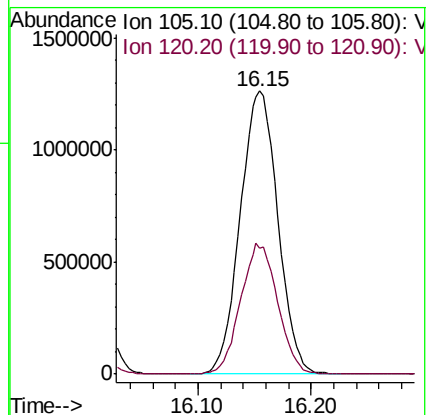
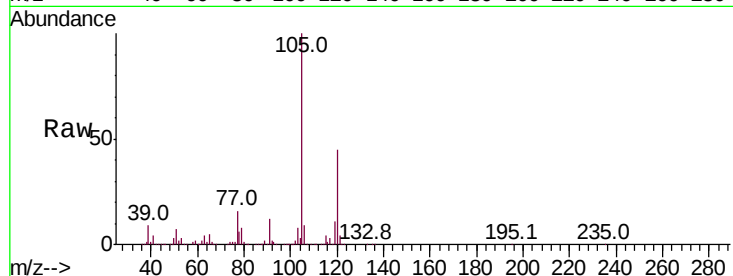
120 44.7 37.0 55.4

Manual Integrations

APPROVED

apatel

5/29/2019 12:40:43 PM



#74

1,2,4-Trimethylbenzene

Concen: 9.482 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. -0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Tgt Ion:105 Resp: 3068472

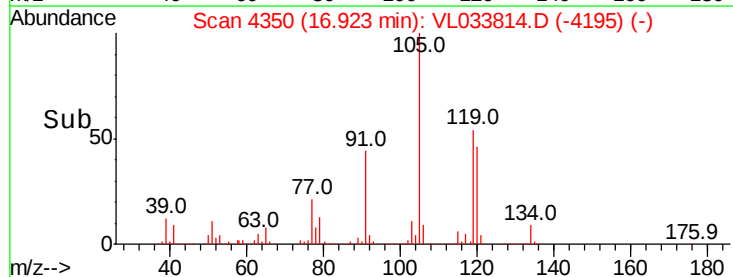
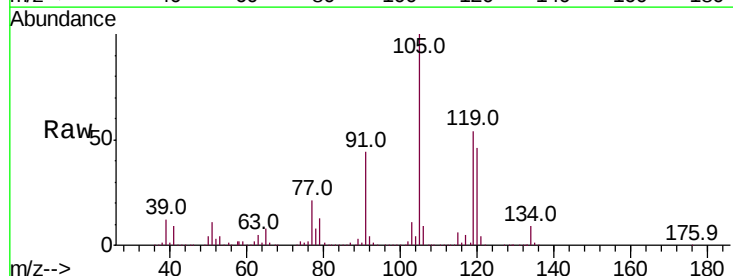
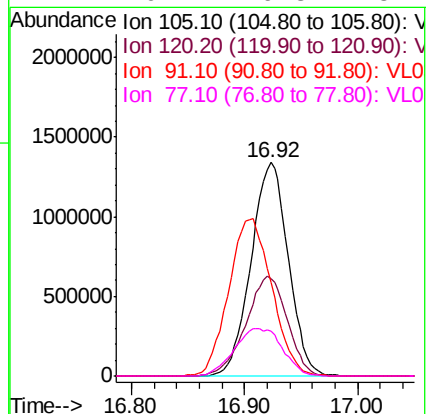
Ion Ratio Lower Upper

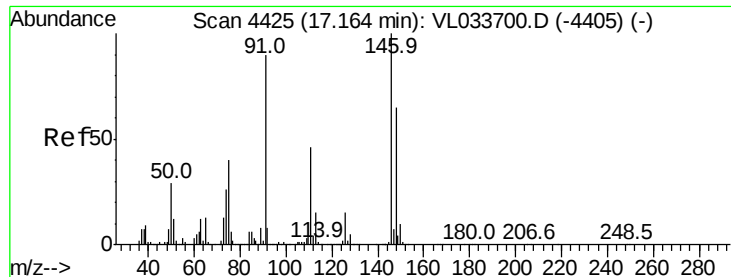
105 100

120 45.5 36.8 55.2

91 43.5 35.4 53.0

77 20.7 16.8 25.2





#75

1,3-Dichlorobenzene

Concen: 8.986 ppbv

RT: 17.16 min Scan# 4423

Delta R.T. -0.01 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS02DUP

Tot Ion:146 Resp: 1782108

Ion Ratio Lower Upper

146 100

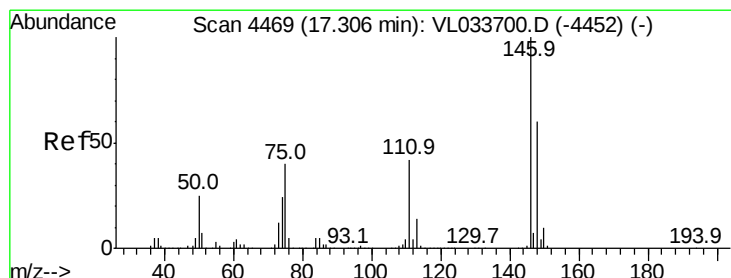
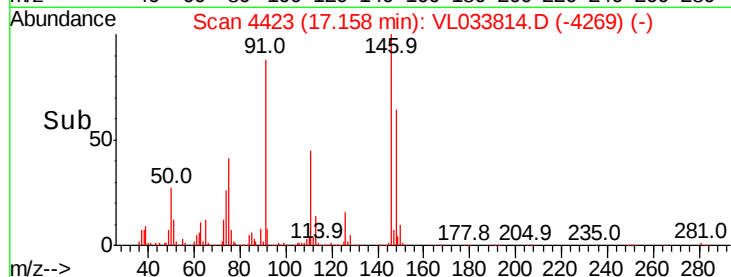
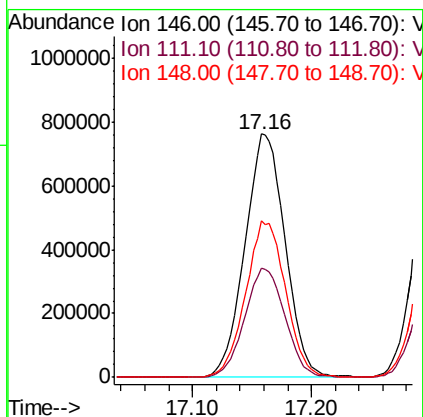
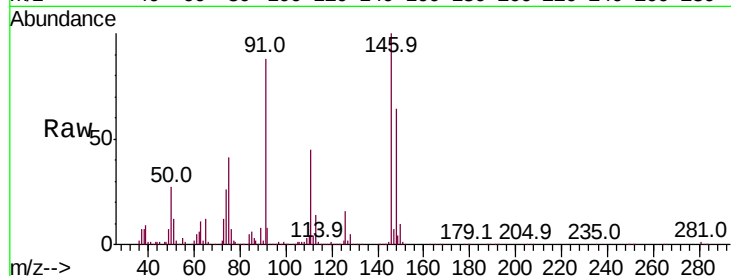
111 45.1 22.9 68.8

148 64.0 32.0 96.2

Manual Integrations
APPROVED

apatel

5/29/2019 12:40:43 PM



#76

1,4-Dichlorobenzene

Concen: 9.412 ppbv

RT: 17.30 min Scan# 4468

Delta R.T. -0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

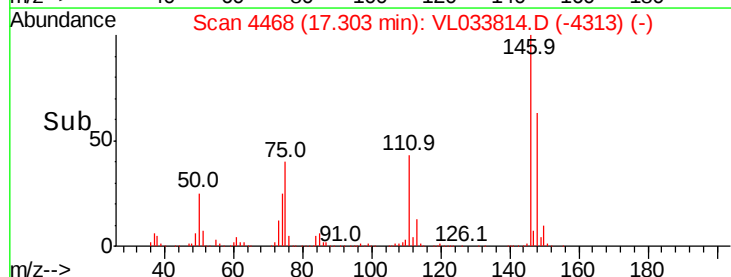
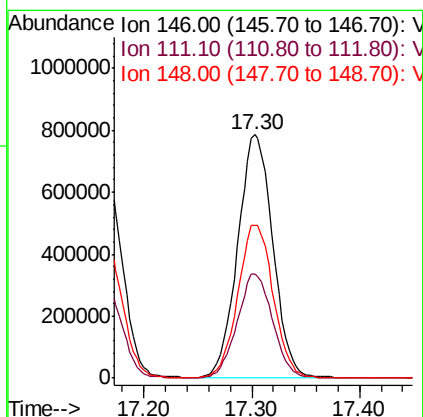
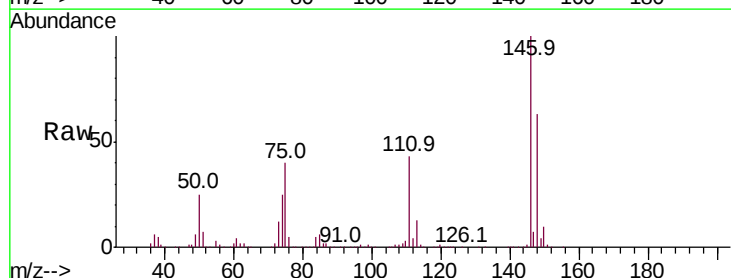
Tgt Ion:146 Resp: 1774064

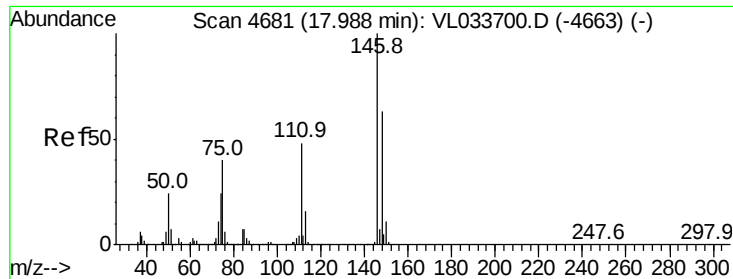
Ion Ratio Lower Upper

146 100

111 43.5 21.9 65.8

148 63.8 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 9.266 ppbv

RT: 17.98 min Scan# 4680

Delta R.T. -0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Instrument :

MSVOA_L

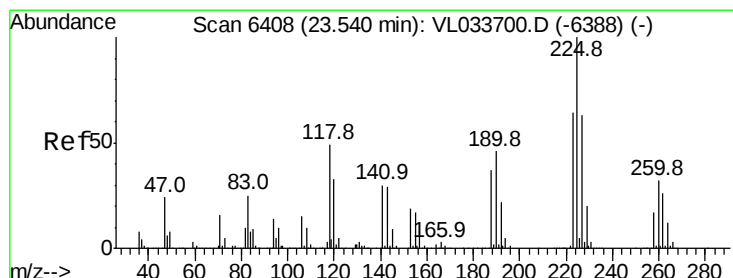
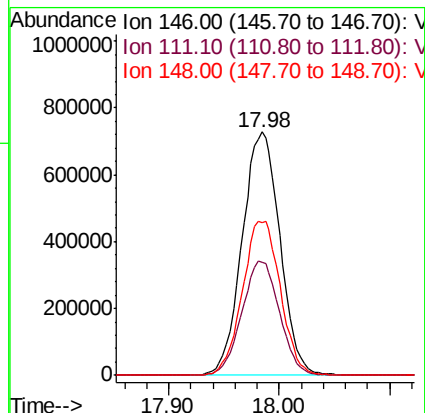
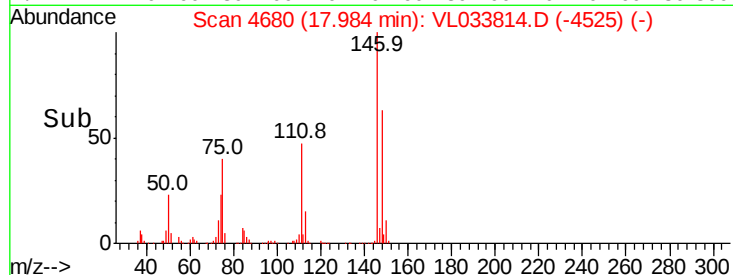
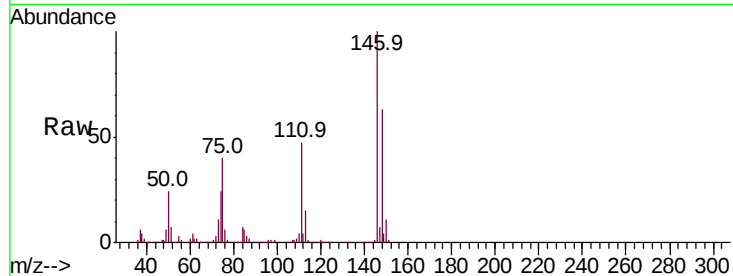
ClientSampleId :

VL0528ABS02DUP

Tot Ion:	146	Resp:	1726653
Ion	Ratio	Lower	Upper
146	100		
111	46.8	23.5	70.5
148	63.8	32.1	96.3

Manual Integrations
APPROVED

apatel
5/29/2019 12:40:43 PM



#78

Hexachloro-1,3-Butadiene

Concen: 7.095 ppbv

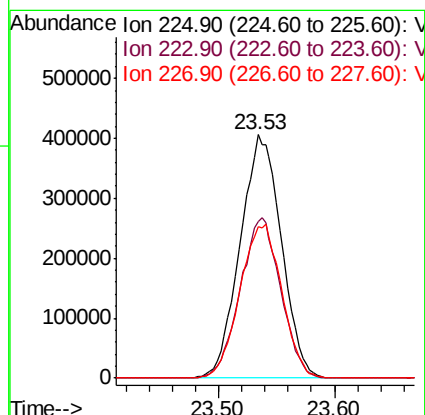
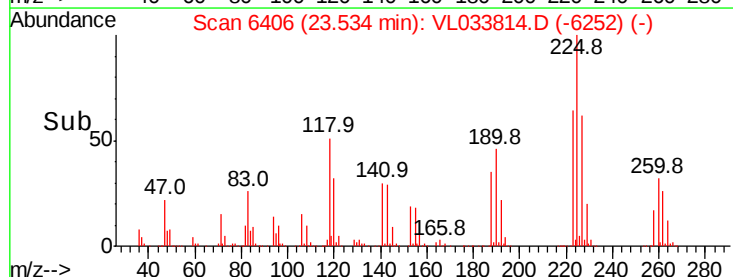
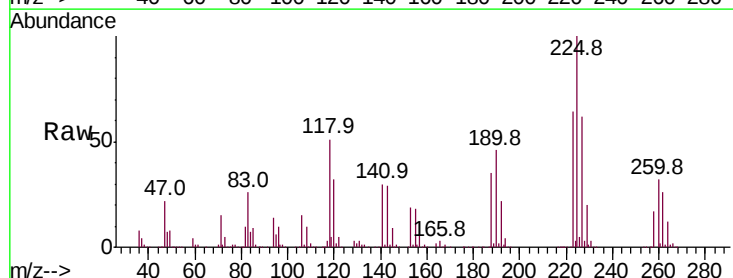
RT: 23.53 min Scan# 6406

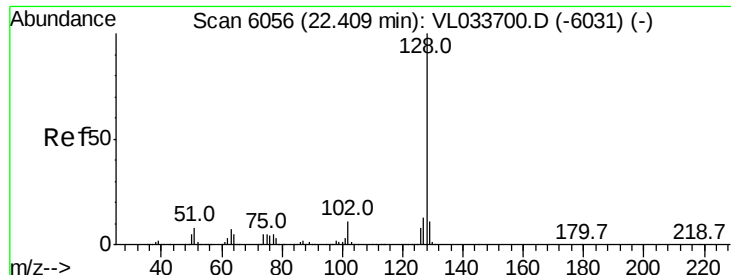
Delta R.T. -0.01 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Tgt Ion:	225	Resp:	999539
Ion	Ratio	Lower	Upper
225	100		
223	64.6	50.2	75.4
227	64.4	50.7	76.1





#79

Naphthalene

Concen: 7.750 ppbv

RT: 22.40 min Scan# 6054

Delta R.T. -0.01 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Instrument :

MSVOA_L

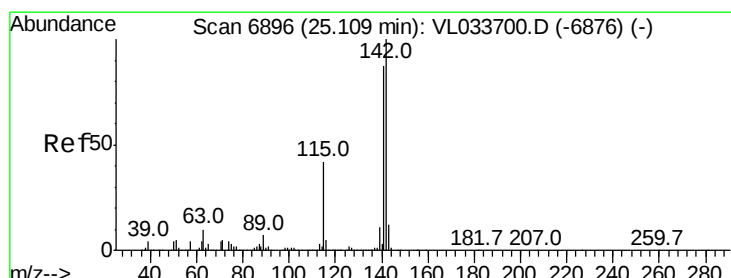
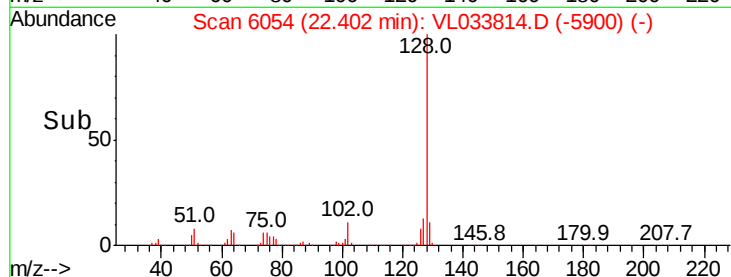
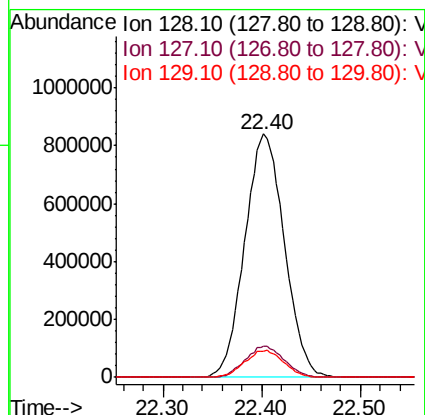
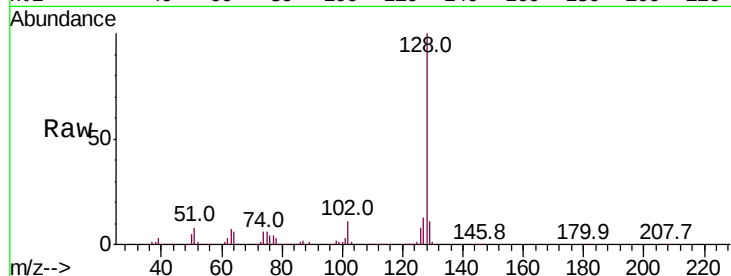
ClientSampleId :

VL0528ABS02DUP

Tot Ion:	128	Resp:	2329572
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.6	16.0
129	10.5	8.9	13.3

Manual Integrations
APPROVED

apatel
5/29/2019 12:40:43 PM



#80

Naphthalene, 2-methyl-

Concen: 5.917 ppbv

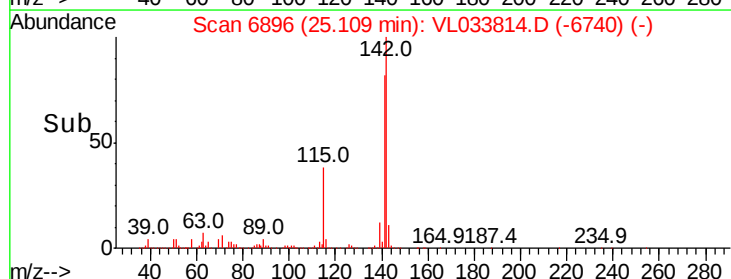
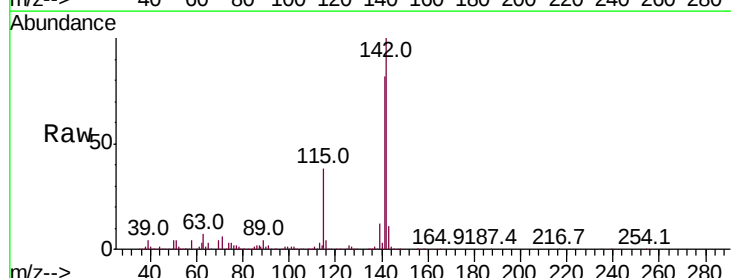
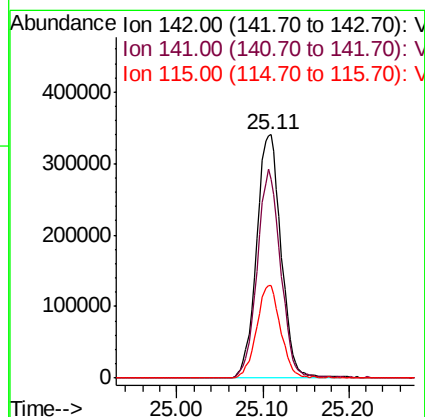
RT: 25.11 min Scan# 6896

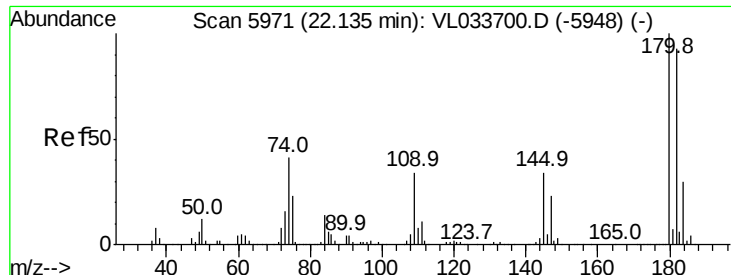
Delta R.T. 0.00 min

Lab File: VL033814.D

Acq: 28 May 2019 21:53

Tgt Ion:	142	Resp:	675794
Ion	Ratio	Lower	Upper
142	100		
141	82.5	67.2	100.8
115	37.8	34.1	51.1





#81
 1,2,4-Trichlorobenzene
 Concen: 7.748 ppbv
 RT: 22.13 min Scan# 5969
 Delta R.T. -0.01 min
 Lab File: VL033814.D
 Acq: 28 May 2019 21:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0528ABS02DUP

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.3	76.1	114.1
184	30.5	24.6	37.0

Manual Integrations
 APPROVED

apatel
 5/29/2019 12:40:43 PM

