

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120919\
 Data File : VL034491.D
 Acq On : 10 Dec 2019 11:04
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 10 13:18:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:15:35 2019
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	920443	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1804941	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	1981222	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1610899	9.66	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	1682496	10.104	ppbv	99
3) Chlorodifluoromethane	2.96	51	1063212	9.258	ppbv	98
4) Chloromethane	3.11	50	562907	8.310	ppbv	98
5) Vinyl Chloride	3.23	62	541211	8.527	ppbv	90
6) Bromomethane	3.45	94	307630	9.633	ppbv	91
7) Chloroethane	3.54	64	200138	8.688	ppbv	93
8) Dichlorotetrafluoroethane	3.16	85	1308884	8.753	ppbv	99
9) Propene	2.98	41	407276	7.988	ppbv	100
10) Heptane	8.15	43	1127659	8.570	ppbv	99
11) Trichlorofluoromethane	3.93	101	1518726	9.164	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.48	101	999569	9.082	ppbv	98
13) Ethanol	3.58	45	119169	8.391	ppbv	95
14) Bromoethene	3.72	108	397268	8.878	ppbv	99
15) Acetone	3.83	43	1079952	8.194	ppbv	99
16) 1,3-Butadiene	3.30	39	505225	8.800	ppbv	99
17) tert-Butyl alcohol	4.28	59	1050922	9.486	ppbv	99
18) 1,1-Dichloroethene	4.28	96	432908	8.993	ppbv	99
19) Isopropyl Alcohol	3.95	45	871041	10.310	ppbv #	99
20) Methylene Chloride	4.33	84	384493	8.227	ppbv	93
21) Allyl Chloride	4.40	41	730469	9.249	ppbv	100
22) trans-1,2-Dichloroethene	4.88	96	444552	9.161	ppbv	97
23) Vinyl Acetate	5.07	43	1564458	9.086	ppbv	100
24) 1,1-Dichloroethane	5.01	63	1145757	8.663	ppbv	99
25) Ethyl Acetate	5.68	43	1949366	8.288	ppbv	99
26) Hexane	5.69	57	839870	8.310	ppbv	98
27) Carbon Disulfide	4.54	76	1099838	9.992	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	1411132	8.421	ppbv	100
29) Chloroform	5.77	83	1393588	8.515	ppbv	98
30) Cyclohexane	7.15	84	668209	8.746	ppbv	99
31) cis-1,2-Dichloroethene	5.56	61	892235	8.543	ppbv	97
32) 1,1,1-Trichloroethane	6.53	97	1436365	9.361	ppbv	98
34) 2-Butanone	5.25	43	1295102	8.717	ppbv	97
35) Carbon Tetrachloride	7.04	117	1525161	9.828	ppbv	98
36) Benzene	6.91	78	1595428	8.842	ppbv	95
37) 1,2-Dichloroethane	6.32	62	1243866	9.280	ppbv	99
38) Trichloroethene	7.87	130	634086	8.564	ppbv	98
39) 1,2-Dichloropropane	7.64	63	661236	9.513	ppbv	90
40) 1,4-Dioxane	7.86	88	144093	4.745	ppbv #	4
41) Tetrahydrofuran	6.06	42	726026	8.713	ppbv	98
42) Bromodichloromethane	7.82	83	1558652	9.298	ppbv	96
43) Methyl Methacrylate	8.04	69	687735	9.190	ppbv	99

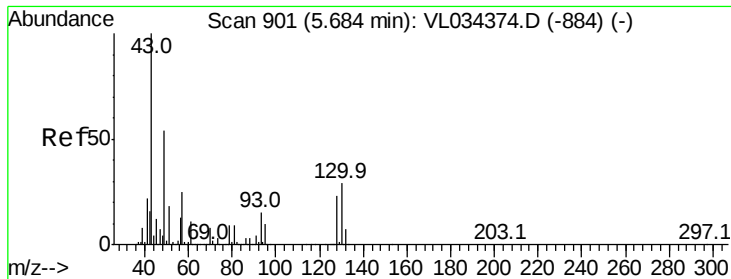
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120919\
 Data File : VL034491.D
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.90	57	2937672	8.909	ppbv	99
45) t-1,3-Dichloropropene	9.32	75	895690	9.333	ppbv	99
46) cis-1,3-Dichloropropene	8.74	75	1005837	9.330	ppbv	100
47) 1,1,2-Trichloroethane	9.52	97	691131	8.938	ppbv	95
48) Dibromochloromethane	10.35	129	1301602	9.804	ppbv	100
49) Bromoform	13.10	173	1169102	9.865	ppbv	99
50) 4-Methyl-2-Pentanone	8.77	43	1967774	9.154	ppbv	99
51) 2-Hexanone	10.17	43	1646961	9.147	ppbv	96
52) Tetrachloroethene	11.28	164	605949	7.762	ppbv	97
53) Toluene	9.85	91	1851357	9.033	ppbv	100
54) 1,2-Dibromoethane	10.66	107	1099368	9.274	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.18	131	893279	9.217	ppbv	98
57) Chlorobenzene	12.20	112	1448665	8.089	ppbv	98
58) Ethyl Benzene	12.76	91	2601761	8.462	ppbv	95
59) m/p-Xylene	13.05	91	2309865	8.691	ppbv #	39
60) o-Xylene	13.75	91	2245737	8.546	ppbv	99
61) Styrene	13.59	104	1568682	8.278	ppbv	99
62) Isopropylbenzene	14.73	105	2934421	8.444	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.74	83	1631733	8.261	ppbv	100
64) n-propylbenzene	15.62	120	762431	8.448	ppbv	96
65) tert-Butylbenzene	16.81	119	2646219	8.477	ppbv	99
66) Benzyl Chloride	17.06	91	1240159	10.326	ppbv	99
67) sec-Butylbenzene	17.36	105	3725077	8.530	ppbv	99
69) p-Isopropyltoluene	17.72	119	3090047	8.526	ppbv	99
70) n-Butylbenzene	18.61	91	3293666	8.446	ppbv	99
71) 2-Chlorotoluene	15.51	91	2337011	8.434	ppbv	99
72) 4-Ethyltoluene	15.90	105	2548717	8.394	ppbv	99
73) 1,3,5-Trimethylbenzene	16.06	105	2453488	8.255	ppbv	98
74) 1,2,4-Trimethylbenzene	16.83	105	2551522	8.082	ppbv #	91
75) 1,3-Dichlorobenzene	17.06	146	1450821	7.995	ppbv	100
76) 1,4-Dichlorobenzene	17.20	146	1421268	8.066	ppbv	99
77) 1,2-Dichlorobenzene	17.89	146	1422566	8.116	ppbv	99
78) Hexachloro-1,3-Butadiene	23.45	225	1172381	7.785	ppbv	99
79) Naphthalene	22.29	128	2149291	7.853	ppbv	98
80) Naphthalene, 2-methyl-	25.03	142	600597	4.860	ppbv	99
81) 1,2,4-Trichlorobenzene	22.02	180	1212972	7.214	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Instrument :
MSVOA_L
ClientSampleId :

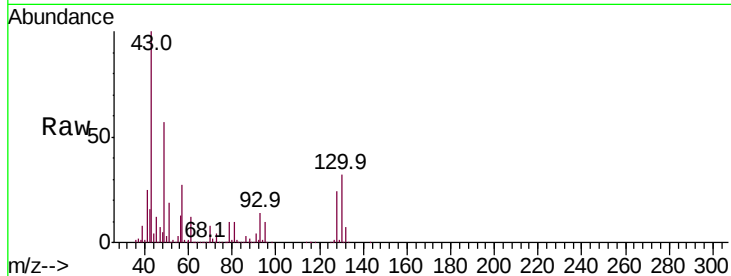
Tot Ion: 49 Resp: 920443

Ion Ratio Lower Upper

49 100

128 43.3 21.8 65.3

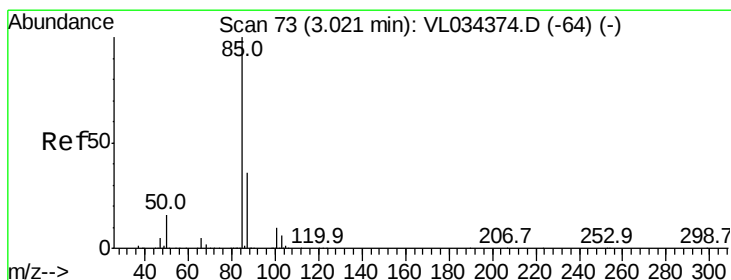
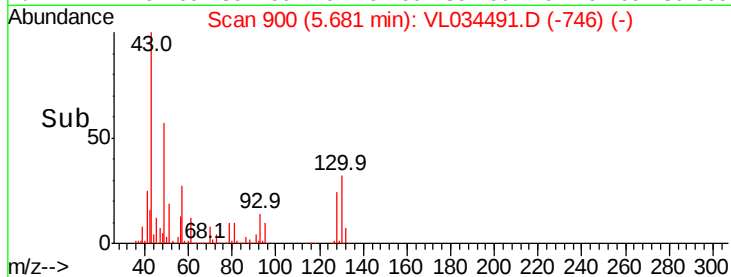
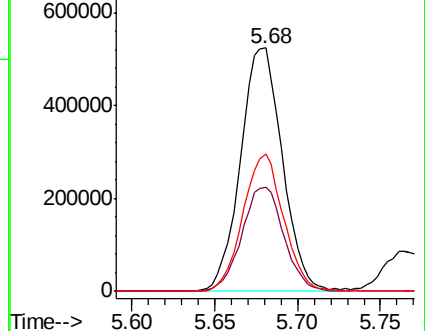
130 55.1 28.0 84.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 10.104 ppbv

RT: 3.02 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL034491.D

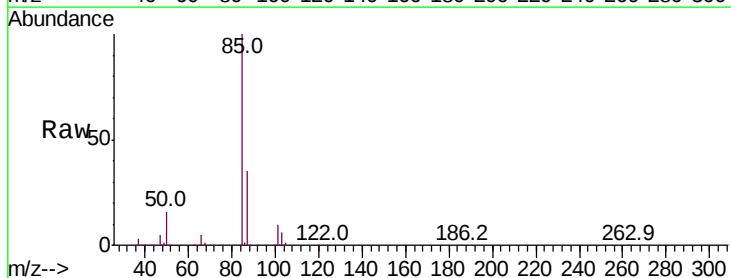
Acq: 10 Dec 2019 11:04

Tgt Ion: 85 Resp: 1682496

Ion Ratio Lower Upper

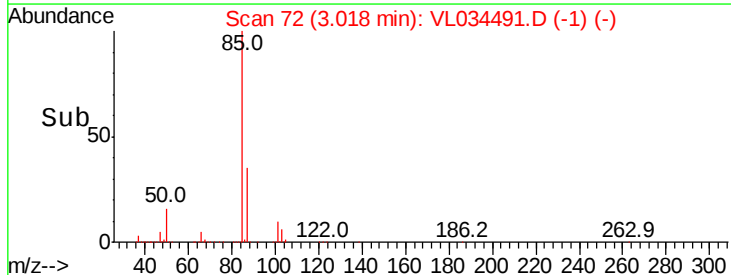
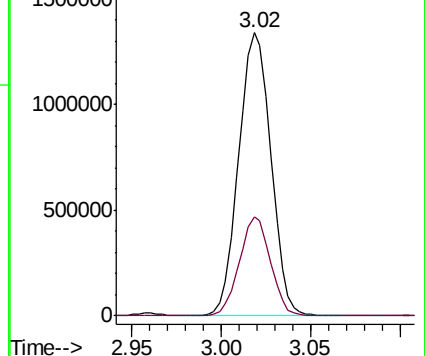
85 100

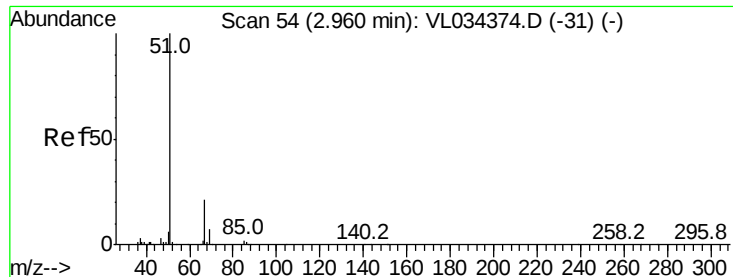
87 35.0 28.5 42.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.258 ppbv

RT: 2.96 min Scan# 53

Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Instrument :

MSVOA_L

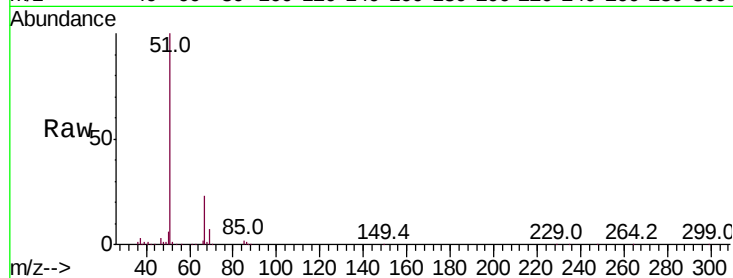
ClientSampleId :

Tot Ion: 51 Resp: 1063212

Ion Ratio Lower Upper

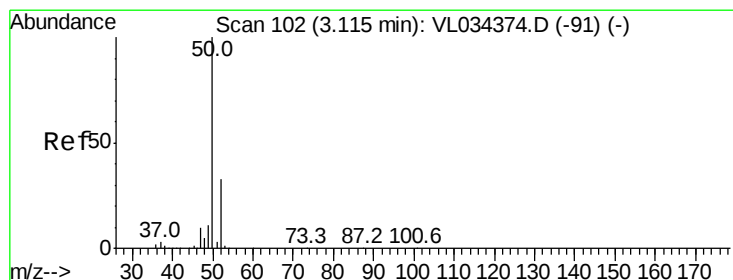
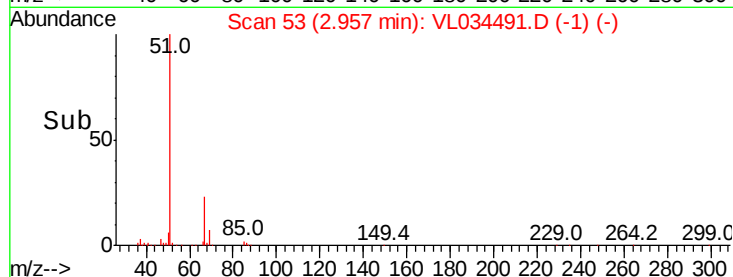
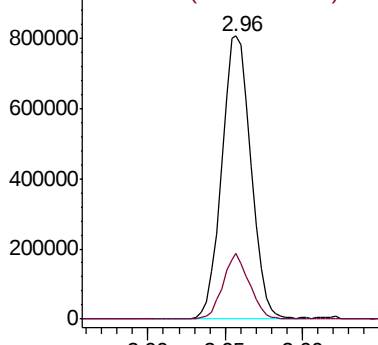
51 100

67 21.0 16.2 24.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 8.310 ppbv

RT: 3.11 min Scan# 101

Delta R.T. -0.00 min

Lab File: VL034491.D

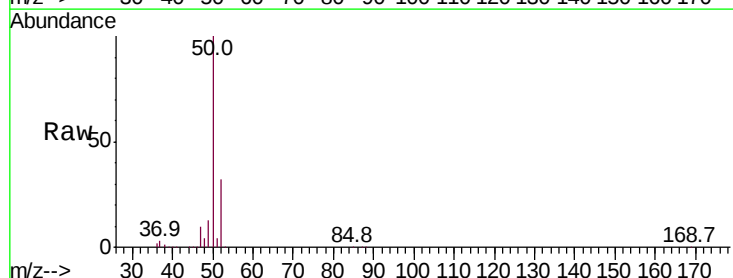
Acq: 10 Dec 2019 11:04

Tgt Ion: 50 Resp: 562907

Ion Ratio Lower Upper

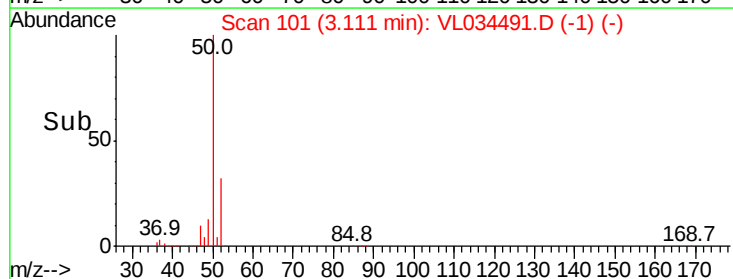
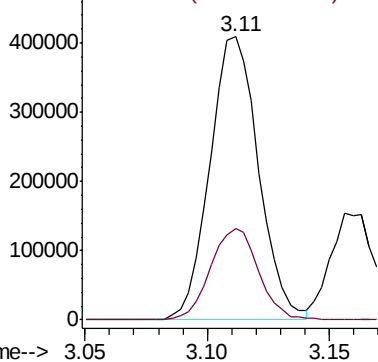
50 100

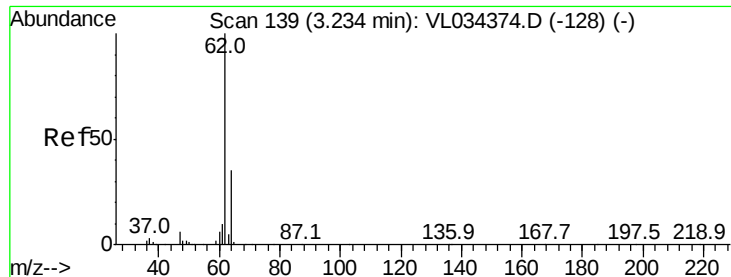
52 32.3 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.527 ppbv

RT: 3.23 min Scan# 138

Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Instrument :

MSVOA_L

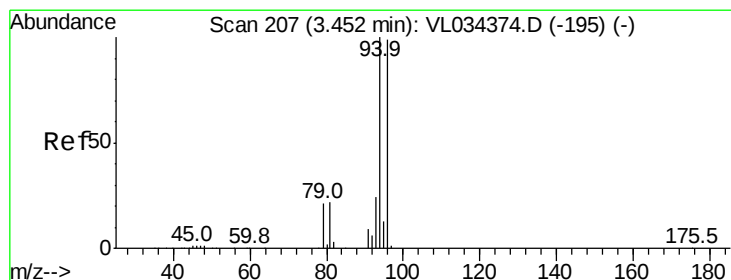
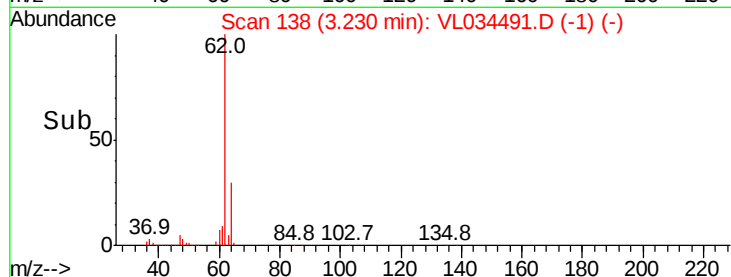
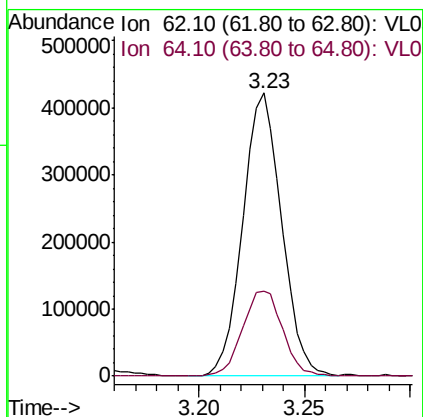
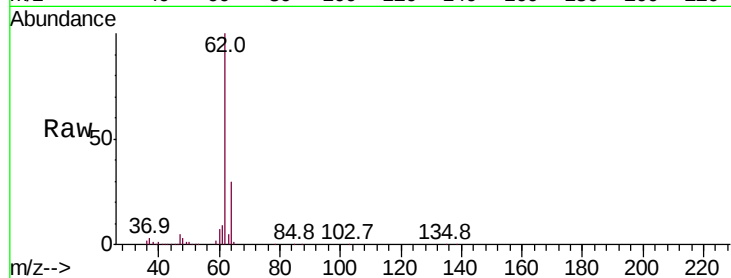
ClientSampleId :

Tot Ion: 62 Resp: 541211

Ion Ratio Lower Upper

62 100

64 29.9 28.4 42.6



#6

Bromomethane

Concen: 9.633 ppbv

RT: 3.45 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL034491.D

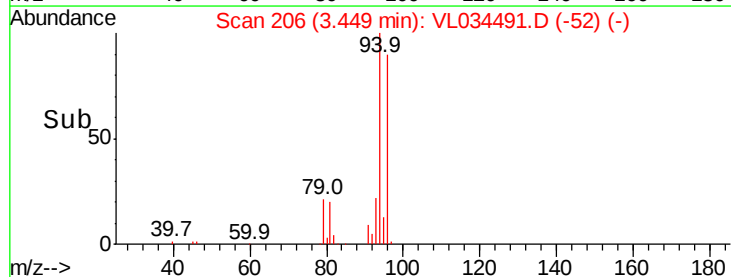
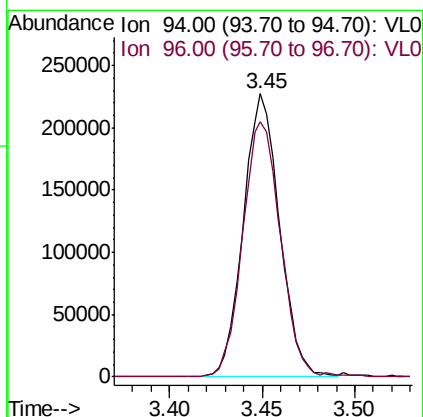
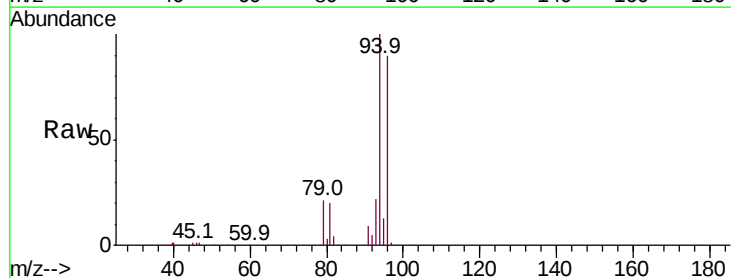
Acq: 10 Dec 2019 11:04

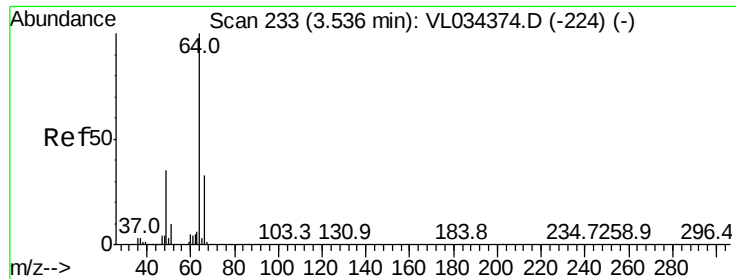
Tgt Ion: 94 Resp: 307630

Ion Ratio Lower Upper

94 100

96 90.2 79.5 119.3





#7

Chloroethane

Concen: 8.688 ppbv

RT: 3.54 min Scan# 233

Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Instrument :

MSVOA_L

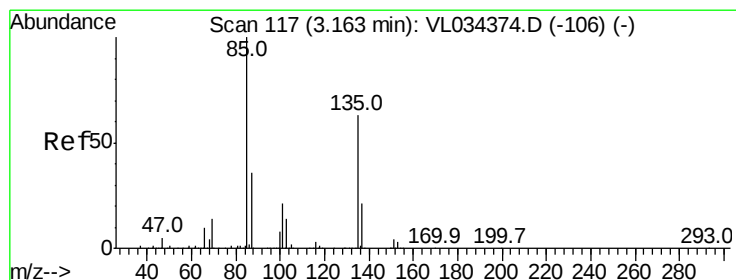
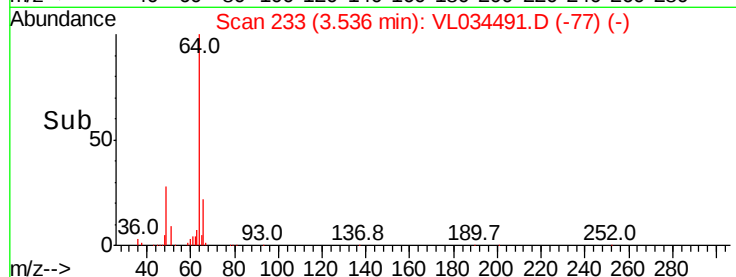
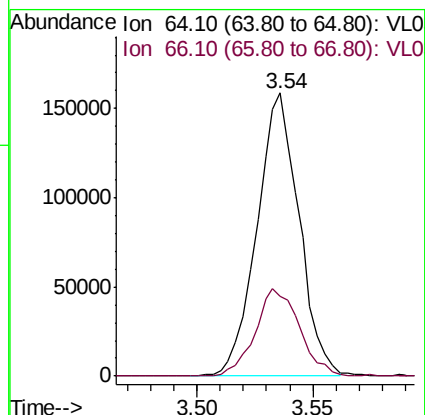
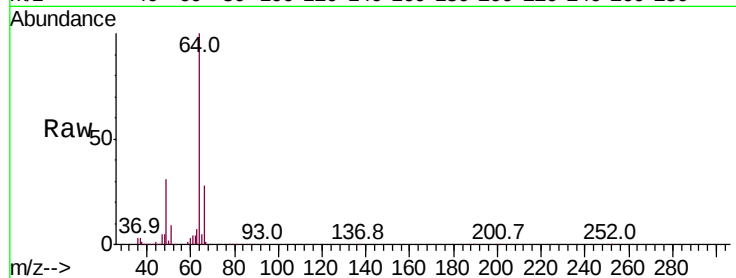
ClientSampleId :

Tot Ion: 64 Resp: 200138

Ion Ratio Lower Upper

64 100

66 28.3 26.0 39.0



#8

Dichlorotetrafluoroethane

Concen: 8.753 ppbv

RT: 3.16 min Scan# 116

Delta R.T. -0.00 min

Lab File: VL034491.D

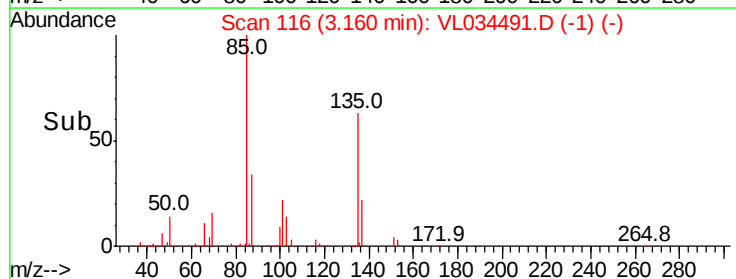
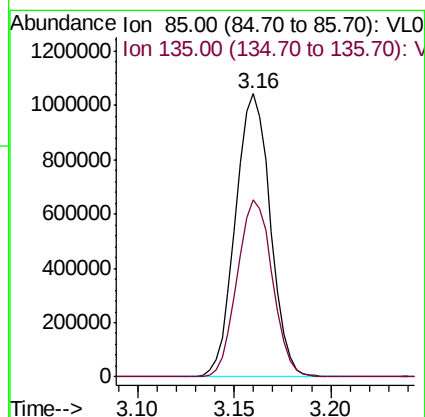
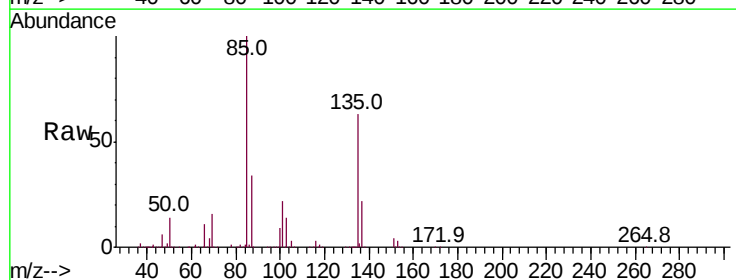
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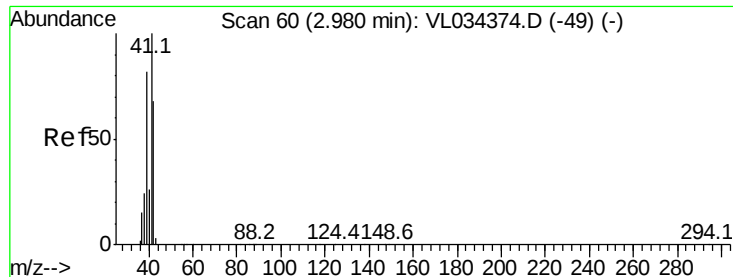
Tgt Ion: 85 Resp: 1308884

Ion Ratio Lower Upper

85 100

135 63.3 51.1 76.7





#9

Propene

Concen: 7.988 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Instrument :

MSVOA_L

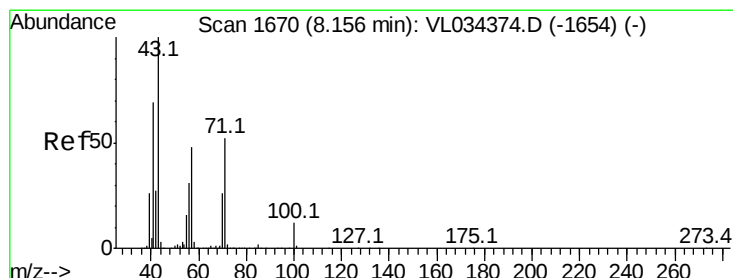
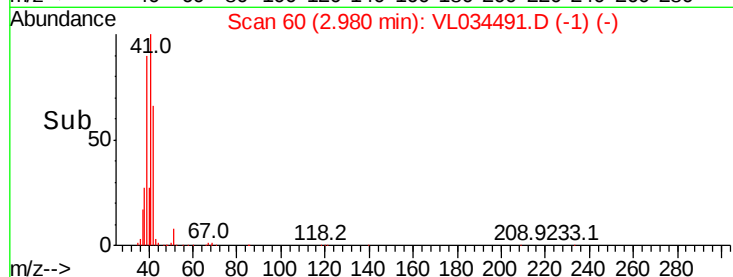
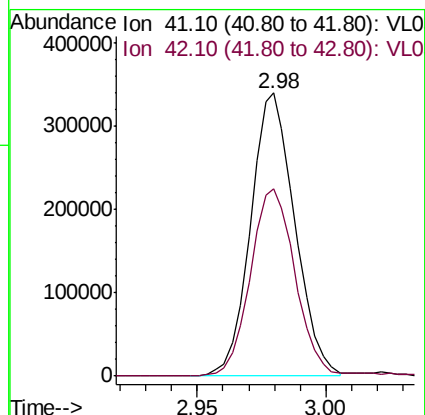
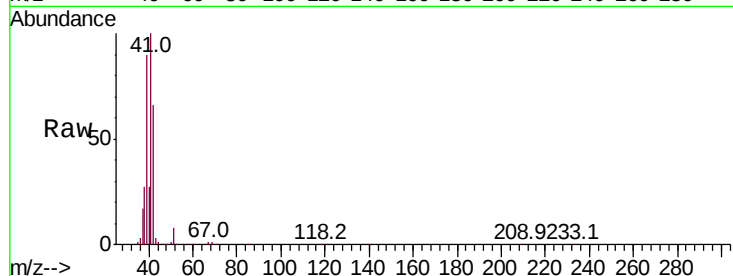
ClientSampleId :

Tot Ion: 41 Resp: 407276

Ion Ratio Lower Upper

41 100

42 68.5 54.6 82.0



#10

Heptane

Concen: 8.570 ppbv

RT: 8.15 min Scan# 1668

Delta R.T. -0.01 min

Lab File: VL034491.D

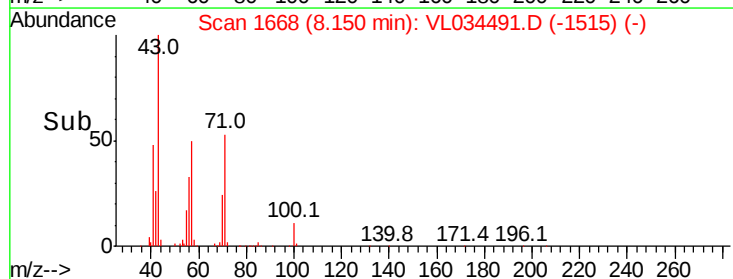
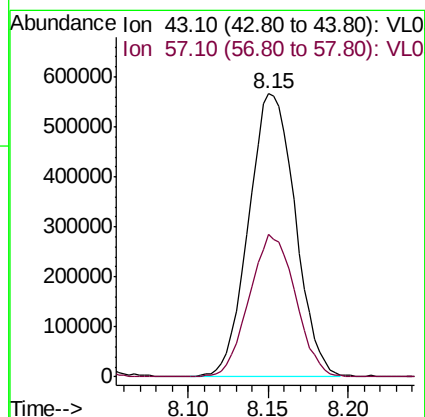
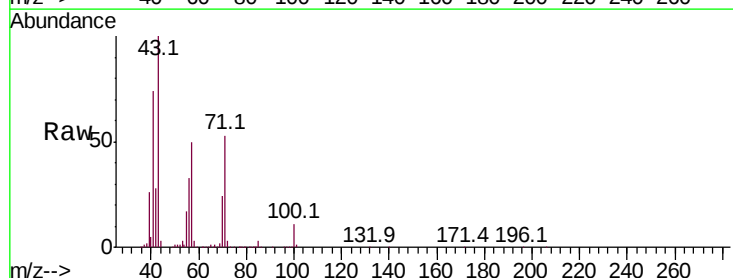
Acq: 10 Dec 2019 11:04

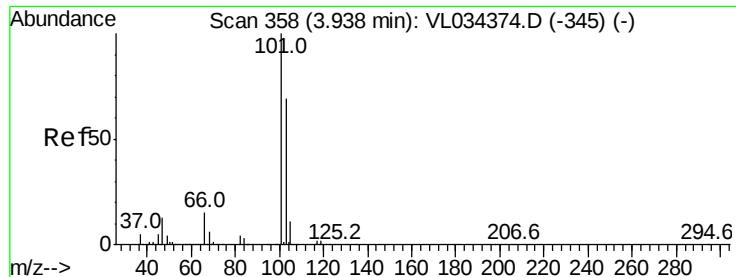
Tgt Ion: 43 Resp: 1127659

Ion Ratio Lower Upper

43 100

57 49.7 40.2 60.2





#11

Trichlorofluoromethane

Concen: 9.164 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Instrument :

MSVOA_L

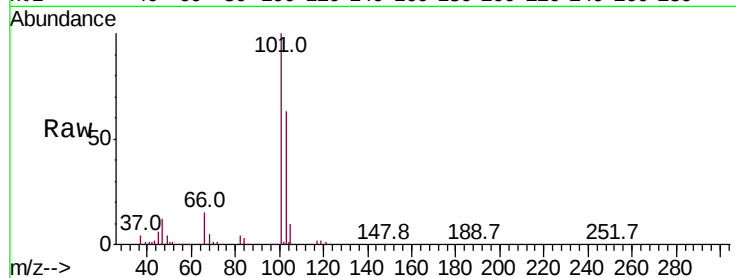
ClientSampleId :

Tot Ion:101 Resp: 1518726

Ion Ratio Lower Upper

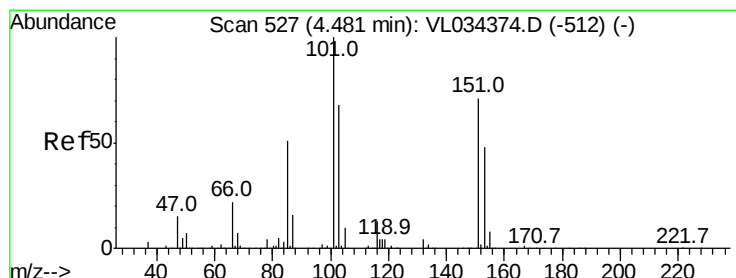
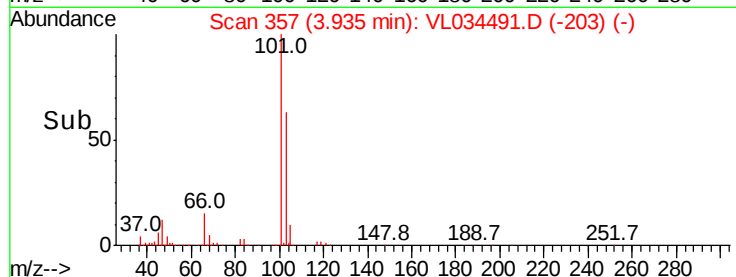
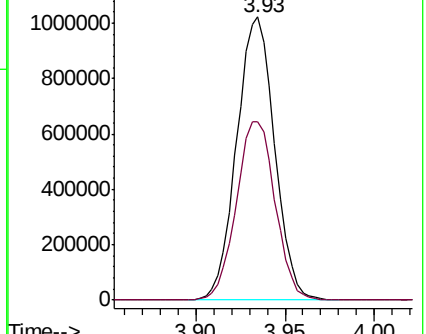
101 100

103 62.8 55.4 83.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.082 ppbv

RT: 4.48 min Scan# 526

Delta R.T. -0.00 min

Lab File: VL034491.D

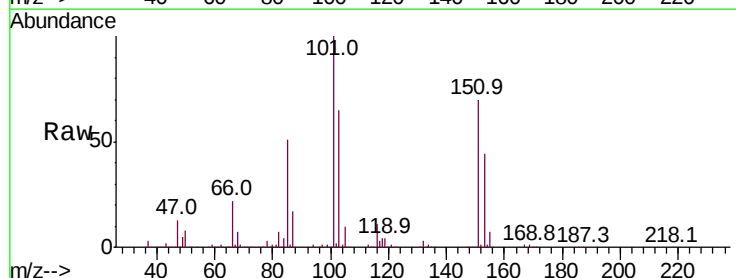
Acq: 10 Dec 2019 11:04

Tgt Ion:101 Resp: 999569

Ion Ratio Lower Upper

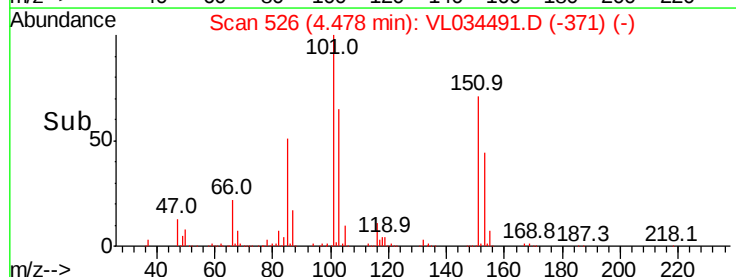
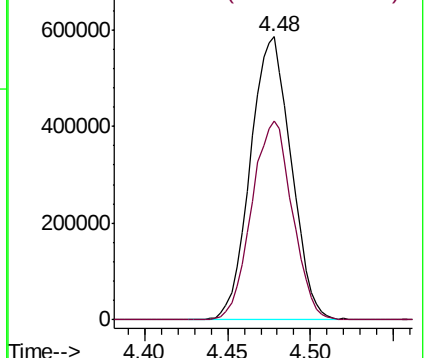
101 100

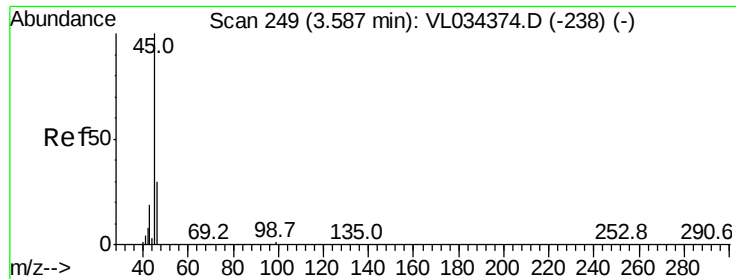
151 70.4 57.4 86.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

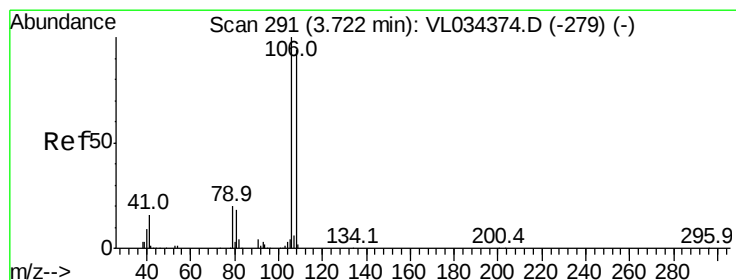
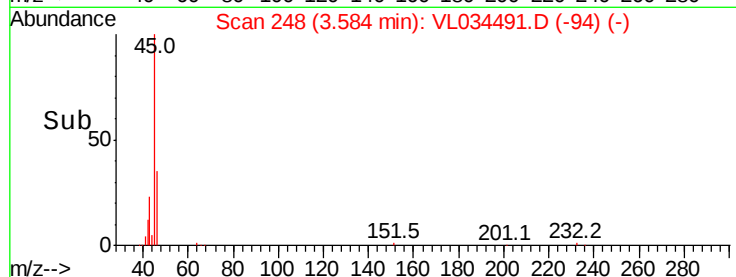
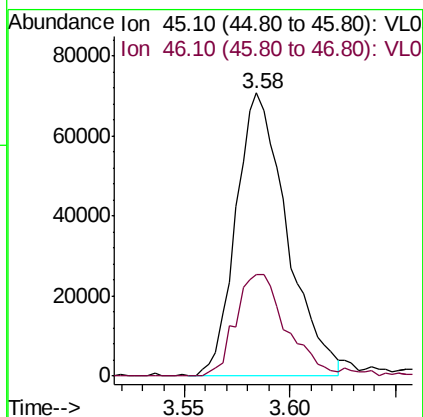
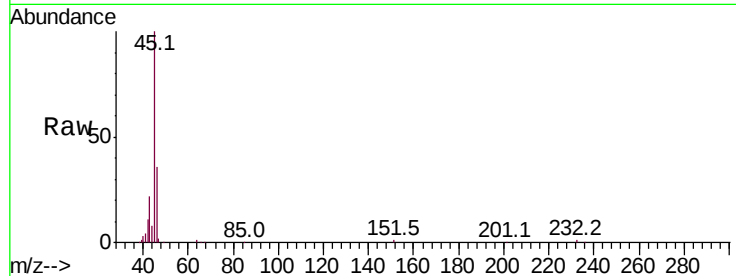




#13
Ethanol
Concen: 8.391 ppbv
RT: 3.58 min Scan# 248
Delta R.T. -0.00 min
Lab File: VL034491.D
Acq: 10 Dec 2019 11:04

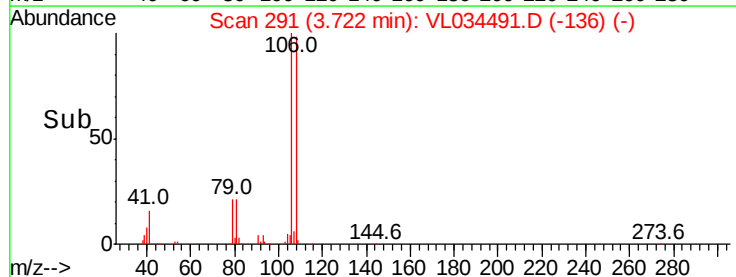
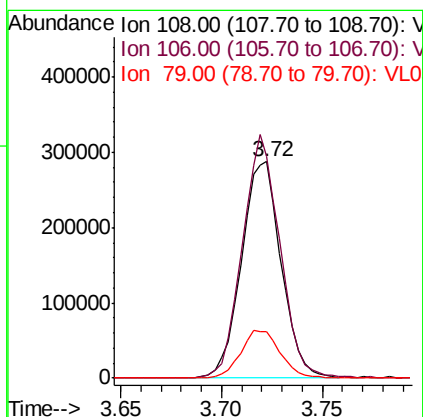
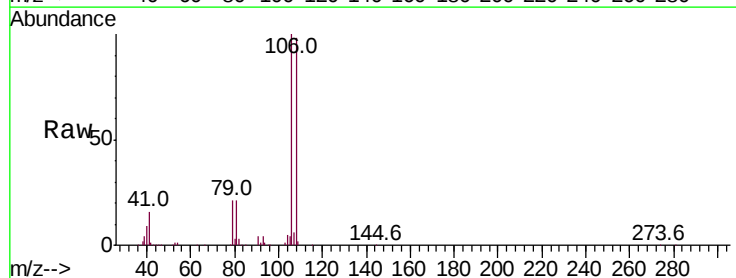
Instrument :
MSVOA_L
ClientSampleId :

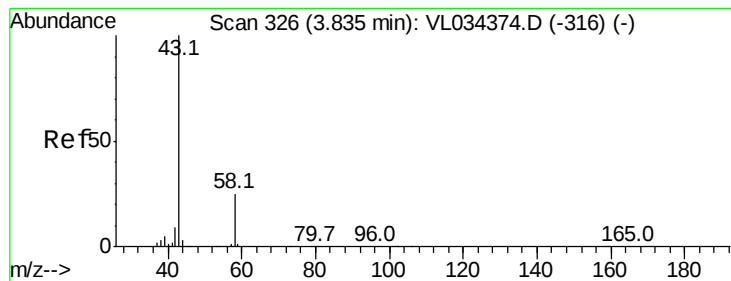
Tot Ion: 45 Resp: 119169
Ion Ratio Lower Upper
45 100
46 37.7 13.8 55.4



#14
Bromoethene
Concen: 8.878 ppbv
RT: 3.72 min Scan# 291
Delta R.T. -0.00 min
Lab File: VL034491.D
Acq: 10 Dec 2019 11:04

Tgt Ion: 108 Resp: 397268
Ion Ratio Lower Upper
108 100
106 106.7 85.7 128.5
79 22.3 17.2 25.8





#15

Acetone

Concen: 8.194 ppbv

RT: 3.83 min Scan# 325

Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Instrument :

MSVOA_L

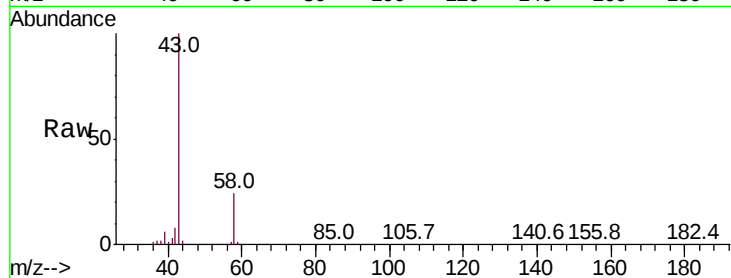
ClientSampleId :

Tot Ion: 43 Resp: 1079952

Ion Ratio Lower Upper

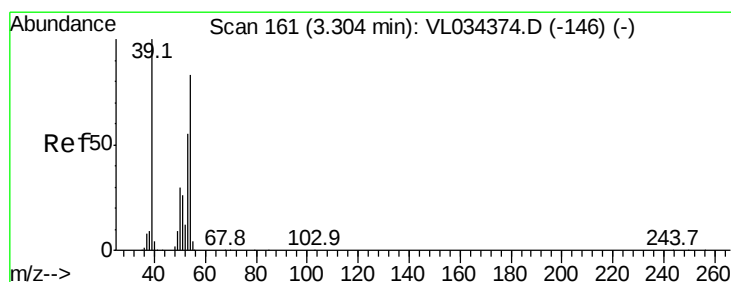
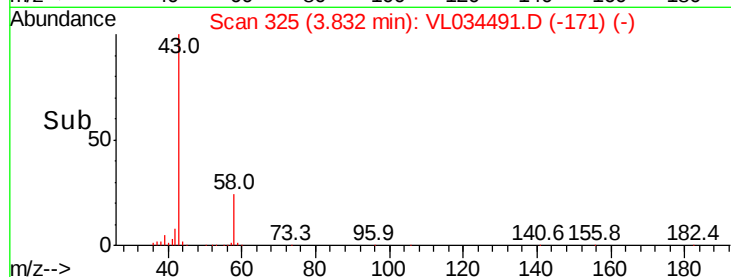
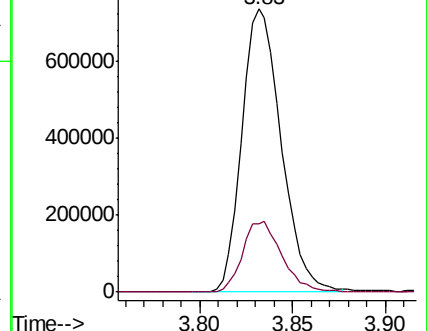
43 100

58 25.0 20.2 30.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 8.800 ppbv

RT: 3.30 min Scan# 160

Delta R.T. -0.00 min

Lab File: VL034491.D

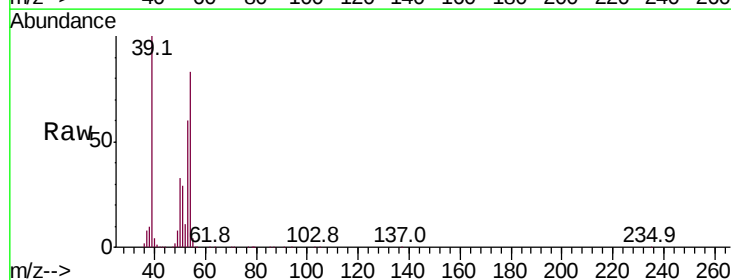
Acq: 10 Dec 2019 11:04

Tgt Ion: 39 Resp: 505225

Ion Ratio Lower Upper

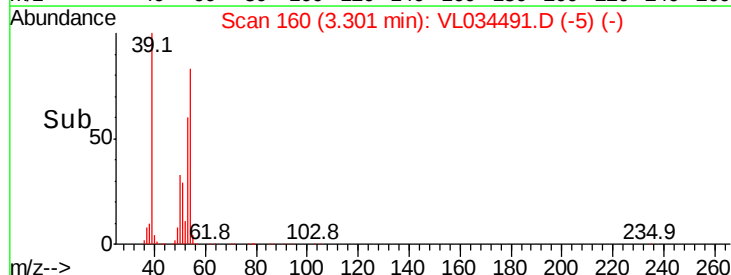
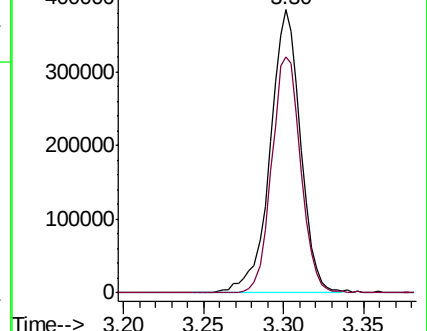
39 100

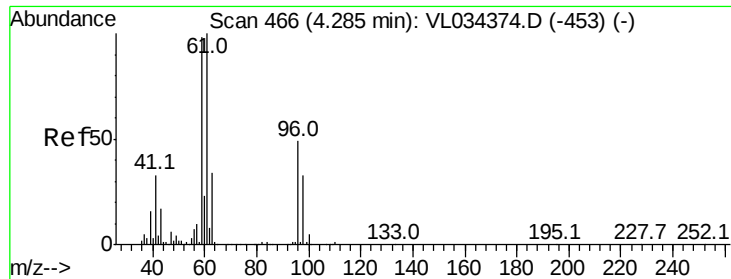
54 80.3 64.7 97.1



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



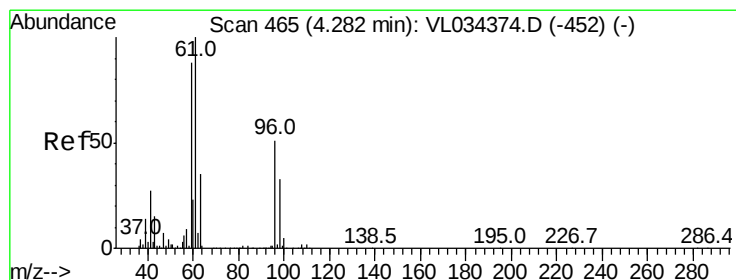
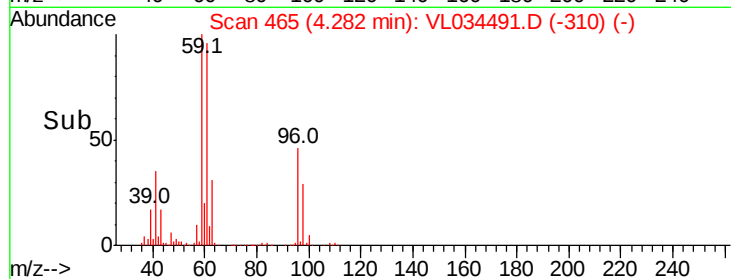
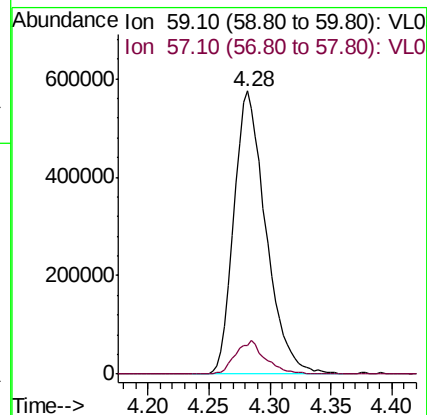
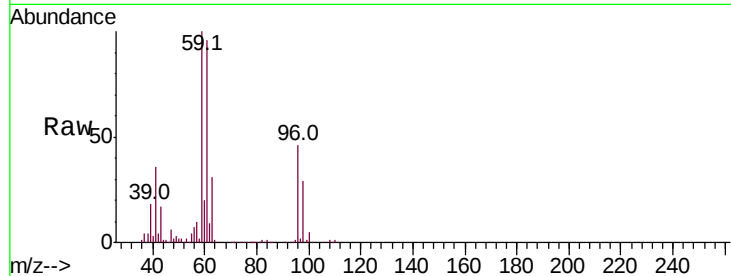


#17

tert-Butyl alcohol
Concen: 9.486 ppbv
RT: 4.28 min Scan# 465
Delta R.T. -0.00 min
Lab File: VL034491.D
Acq: 10 Dec 2019 11:04

Instrument :
MSVOA_L
ClientSampleId :

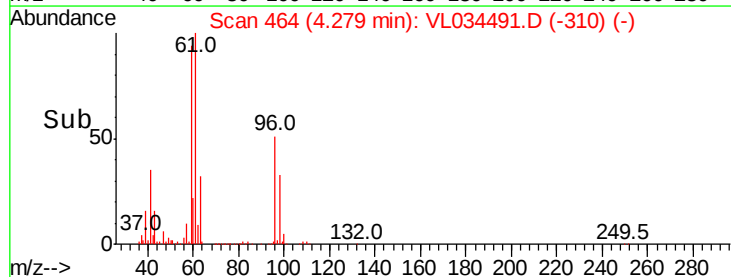
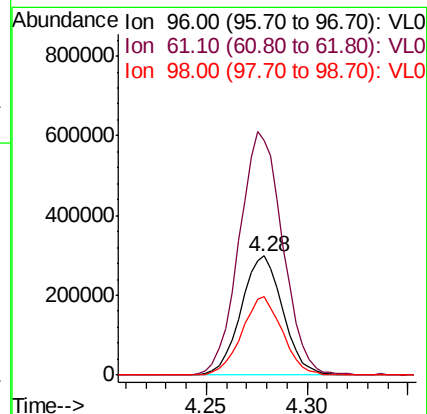
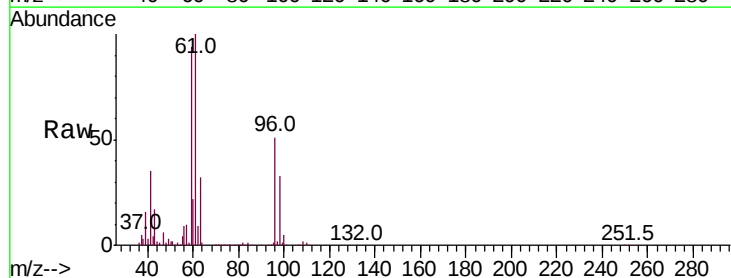
Tot Ion: 59 Resp: 1050922
Ion Ratio Lower Upper
59 100
57 11.2 8.8 13.2

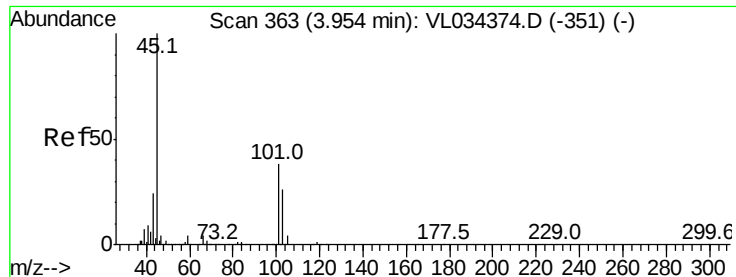


#18

1,1-Dichloroethene
Concen: 8.993 ppbv
RT: 4.28 min Scan# 464
Delta R.T. -0.00 min
Lab File: VL034491.D
Acq: 10 Dec 2019 11:04

Tgt Ion: 96 Resp: 432908
Ion Ratio Lower Upper
96 100
61 196.5 155.6 233.4
98 65.5 51.6 77.4





#19

Isopropyl Alcohol

Concen: 10.310 ppbv

RT: 3.95 min Scan# 363

Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Instrument :

MSVOA_L

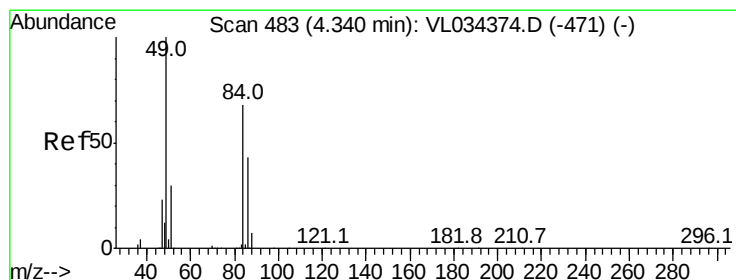
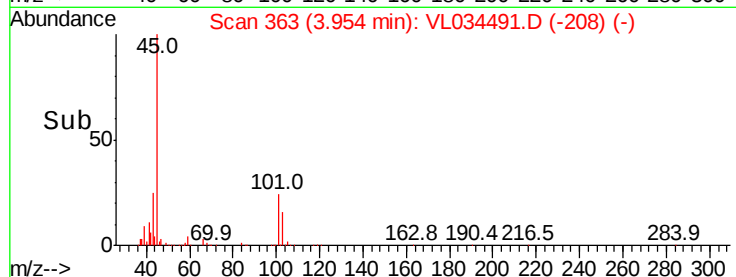
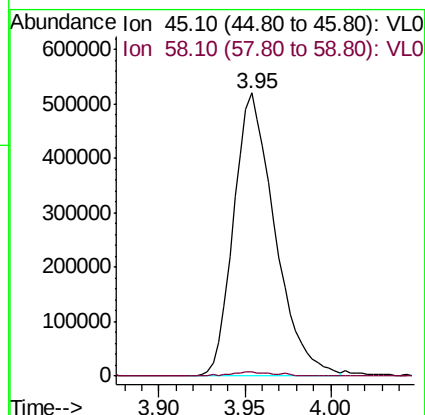
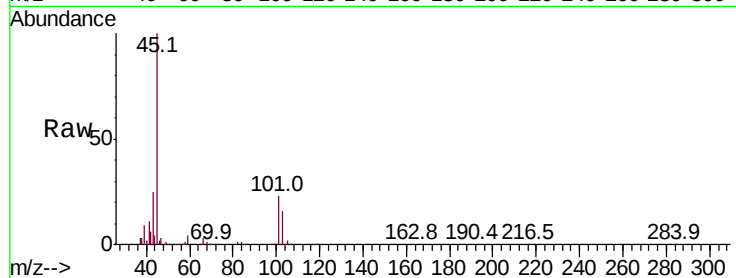
ClientSampleId :

Tot Ion: 45 Resp: 871041

Ion Ratio Lower Upper

45 100

58 2.1 1.3 1.9#



#20

Methylene Chloride

Concen: 8.227 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.01 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Tgt Ion: 84 Resp: 384493

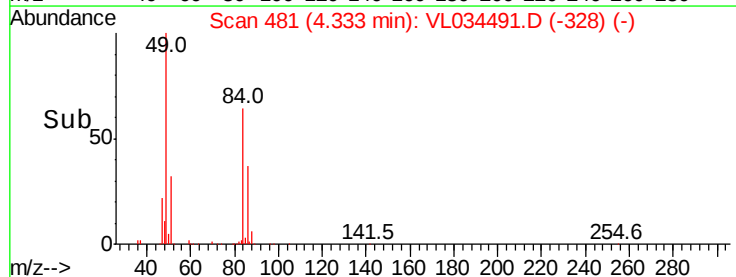
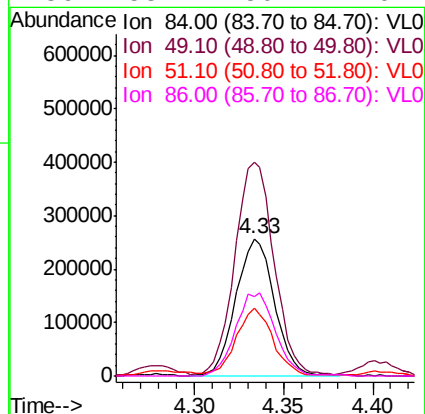
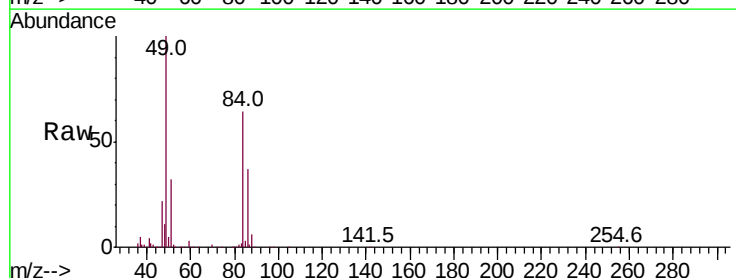
Ion Ratio Lower Upper

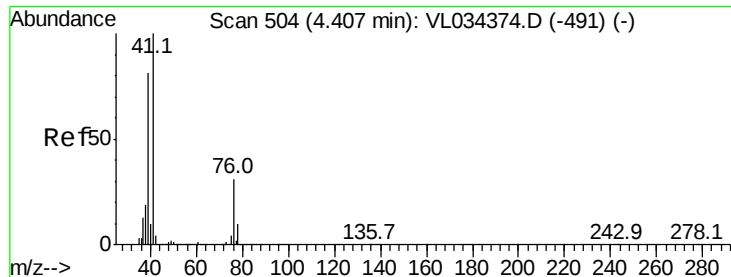
84 100

49 154.9 116.8 175.2

51 49.1 35.6 53.4

86 58.1 50.7 76.1





#21

Allvl Chloride

Concen: 9.249 ppbv

RT: 4.40 min Scan# 502

Delta R.T. -0.01 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Instrument :

MSVOA_L

ClientSampleId :

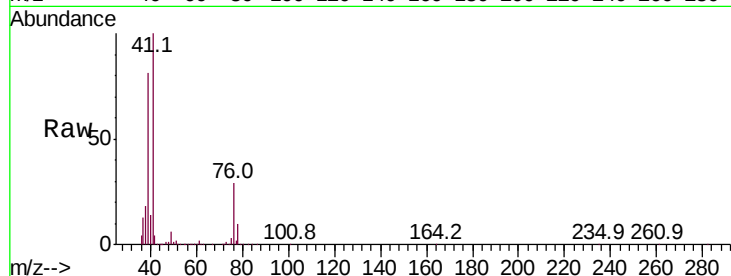
Tot Ion: 41 Resp: 730469

Ion Ratio Lower Upper

41 100

76 29.8 24.2 36.2

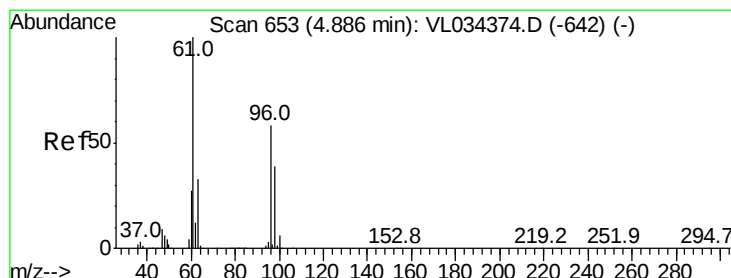
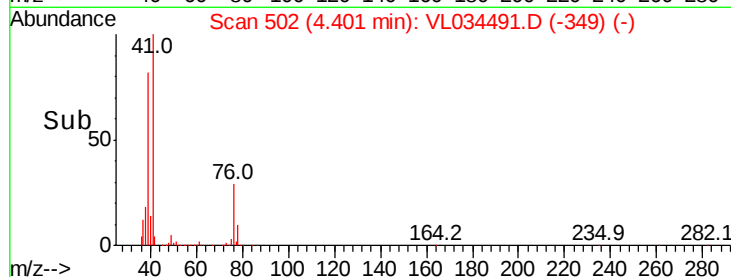
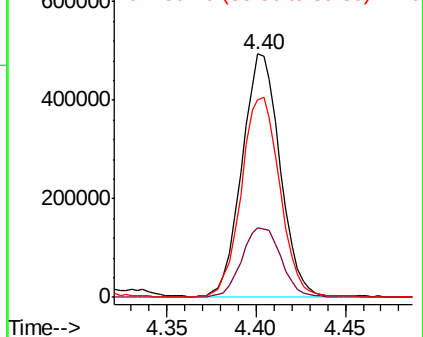
39 83.9 66.9 100.3



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 9.161 ppbv

RT: 4.88 min Scan# 652

Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

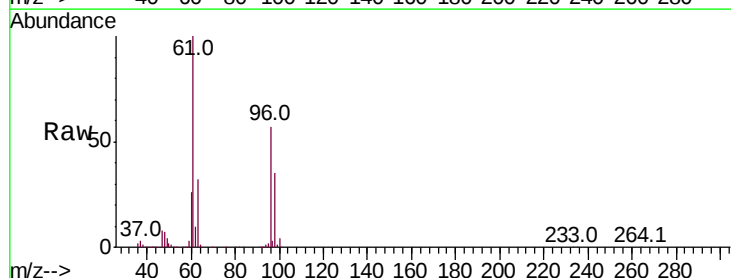
Tgt Ion: 96 Resp: 444552

Ion Ratio Lower Upper

96 100

61 175.2 137.9 206.9

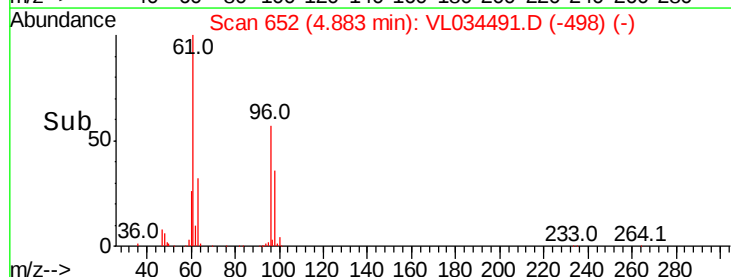
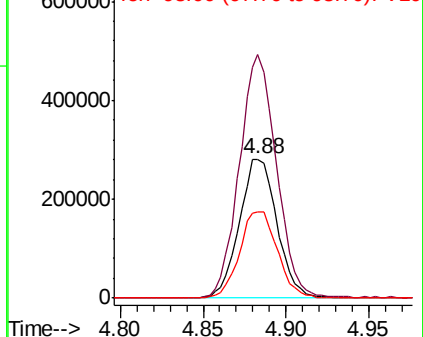
98 62.1 53.5 80.3

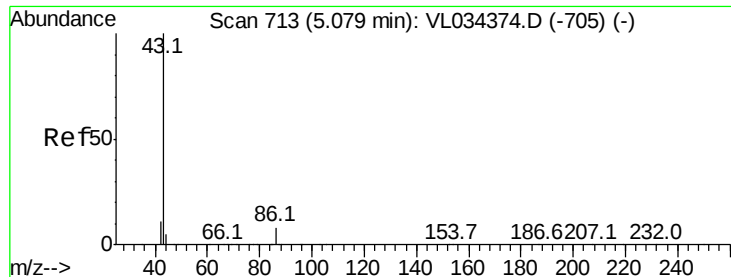


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 9.086 ppbv

RT: 5.07 min Scan# 711

Delta R.T. -0.01 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 1564458

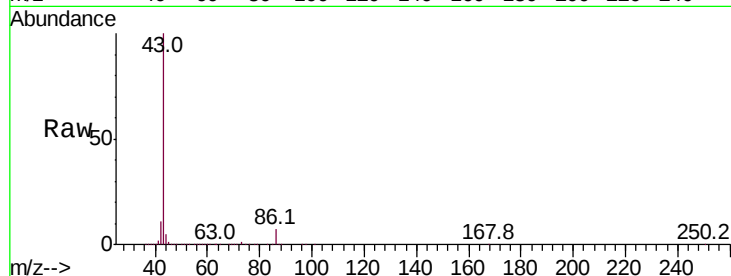
Ion	Ratio	Lower	Upper
43	100		
86	7.1	5.8	8.6
42	11.0	8.9	13.3
44	4.9	4.0	6.0

43 100

86 7.1 5.8 8.6

42 11.0 8.9 13.3

44 4.9 4.0 6.0



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

1500000

1000000

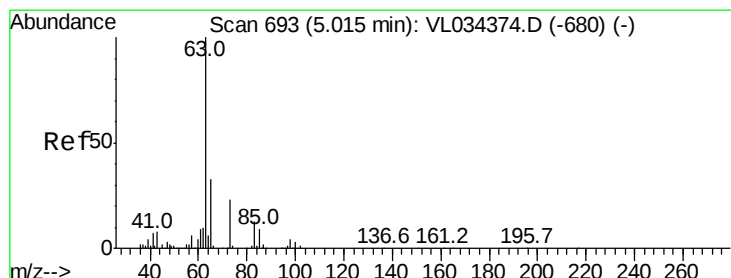
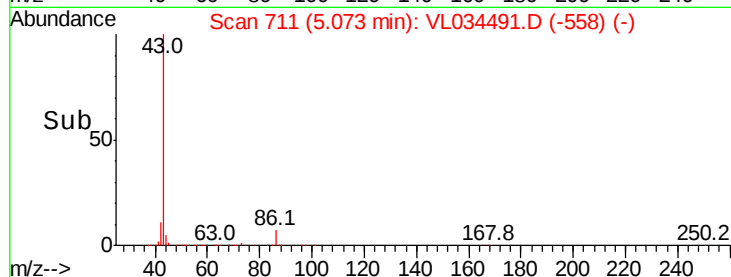
500000

0

5.07

5.05 5.10

Time-->



#24

1,1-Dichloroethane

Concen: 8.663 ppbv

RT: 5.01 min Scan# 692

Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

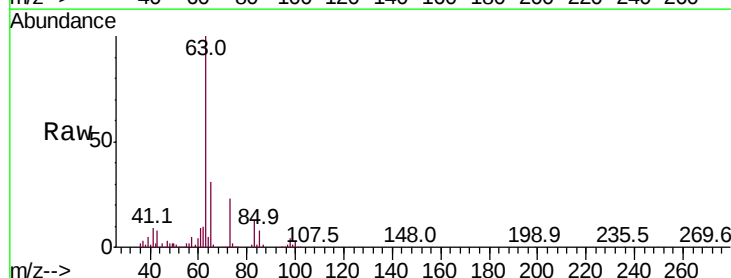
Tgt Ion: 63 Resp: 1145757

Ion	Ratio	Lower	Upper
63	100		
98	4.0	1.9	5.7
100	2.6	1.4	4.0

63 100

98 4.0 1.9 5.7

100 2.6 1.4 4.0



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

800000

600000

400000

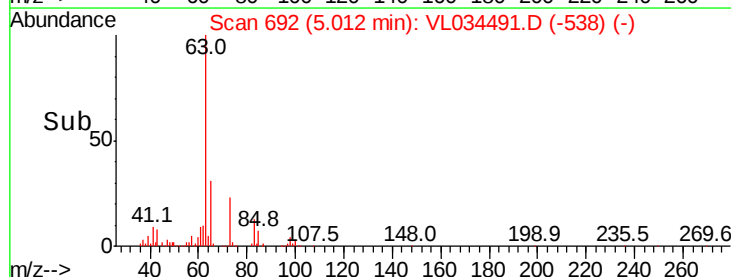
200000

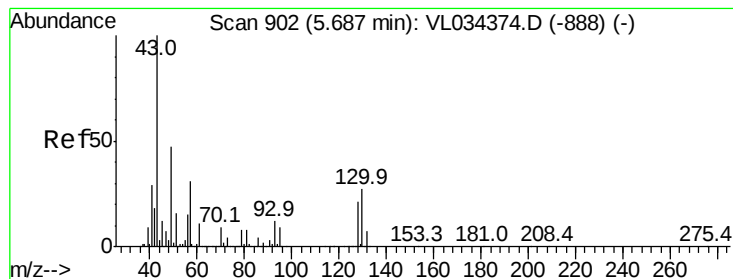
0

5.01

4.95 5.05

Time-->





#25

Ethyl Acetate

Concen: 8.288 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.00 min

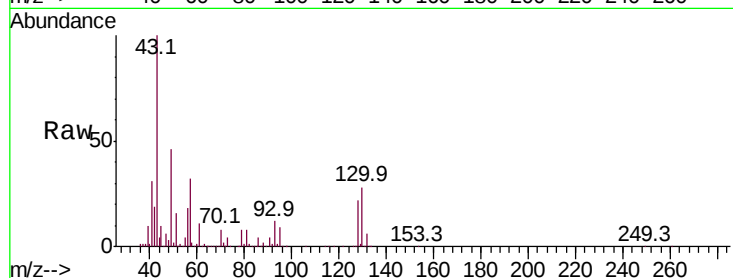
Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

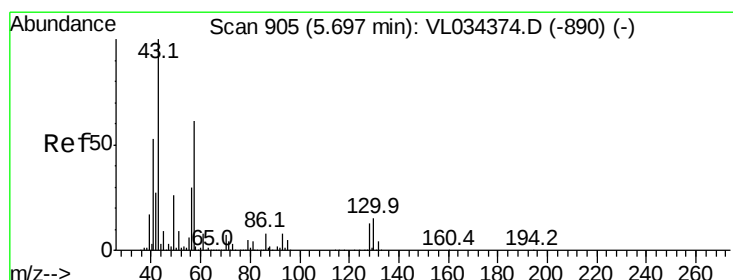
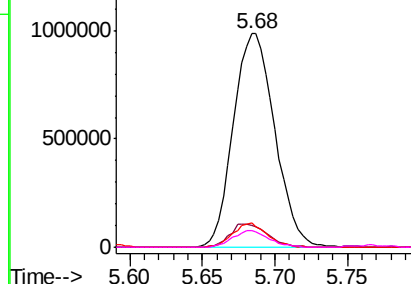
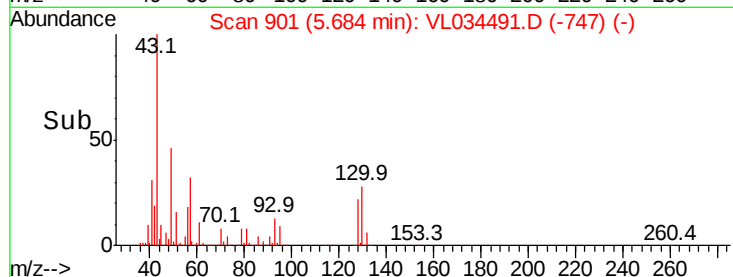
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 1949366

Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.2	12.4
61	9.4	7.5	11.3
70	6.7	5.7	8.5



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



#26

Hexane

Concen: 8.310 ppbv

RT: 5.69 min Scan# 904

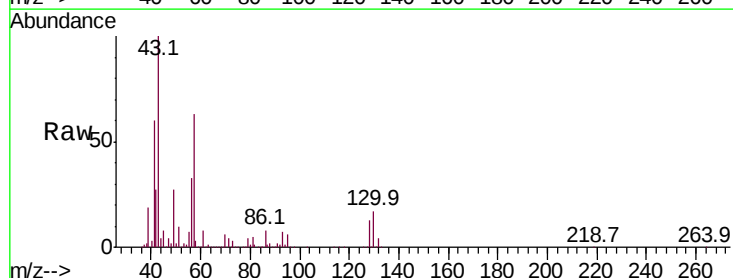
Delta R.T. -0.00 min

Lab File: VL034491.D

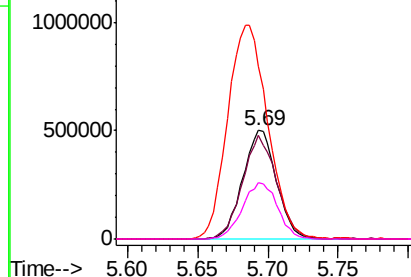
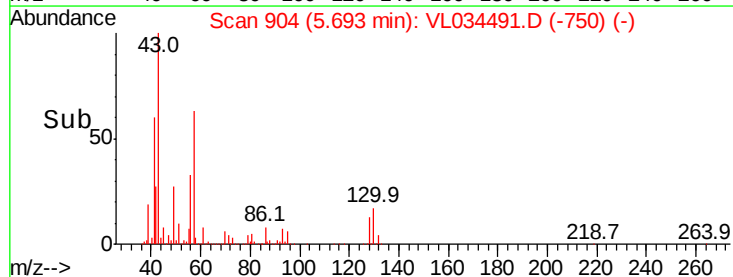
Acq: 10 Dec 2019 11:04

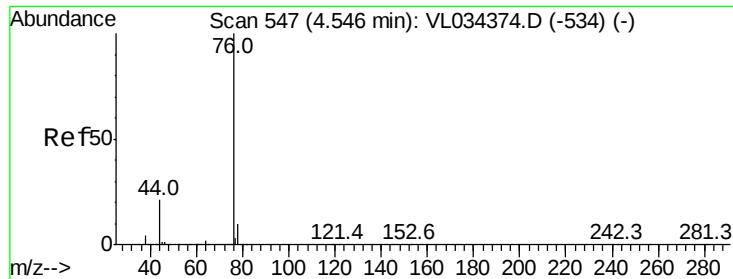
Tgt Ion: 57 Resp: 839870

Ion	Ratio	Lower	Upper
57	100		
41	98.2	75.0	112.4
43	234.0	186.6	279.8
56	54.2	41.5	62.3



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





#27

Carbon Disulfide

Concen: 9.992 ppbv

RT: 4.54 min Scan# 546

Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Instrument :

MSVOA_L

ClientSampleId :

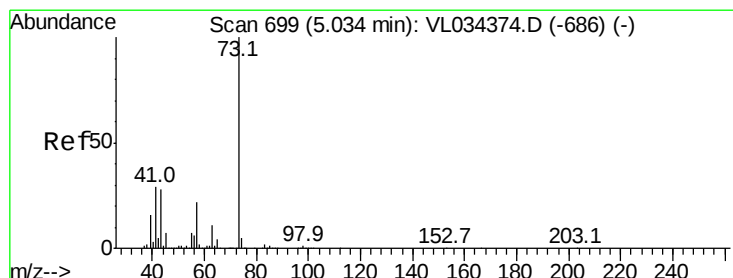
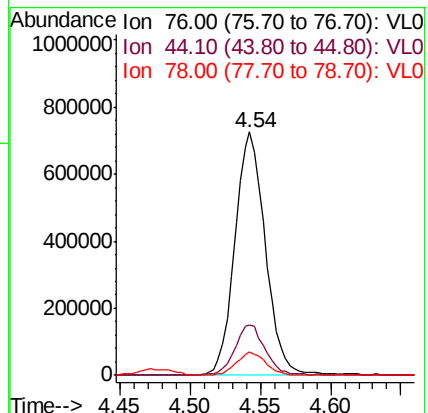
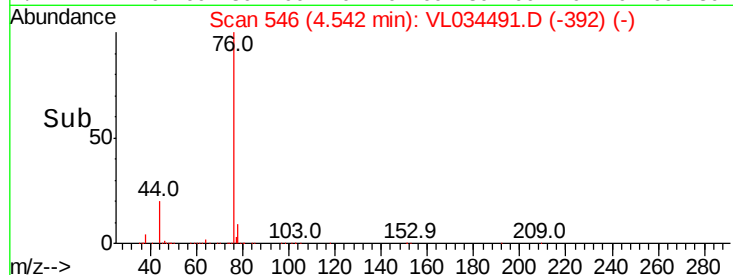
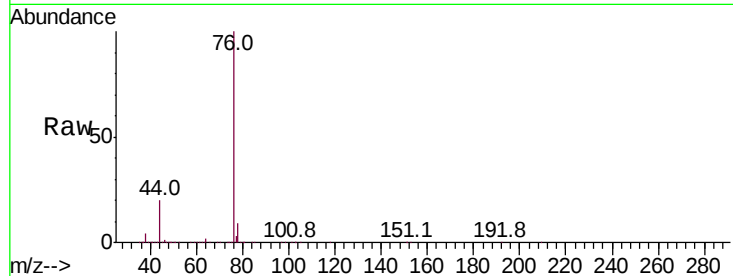
Tot Ion: 76 Resp: 1099838

Ion Ratio Lower Upper

76 100

44 20.4 17.0 25.4

78 9.2 7.6 11.4



#28

Methyl tert-Butyl Ether

Concen: 8.421 ppbv

RT: 5.03 min Scan# 698

Delta R.T. -0.00 min

Lab File: VL034491.D

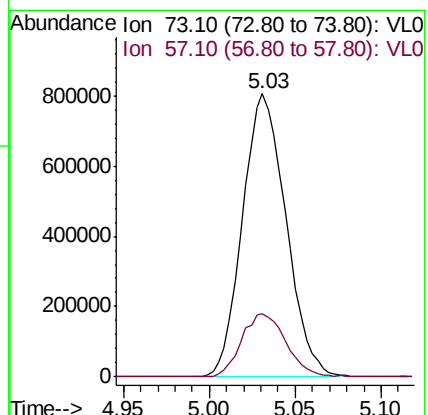
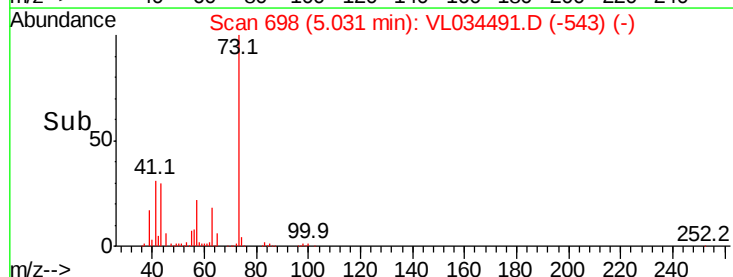
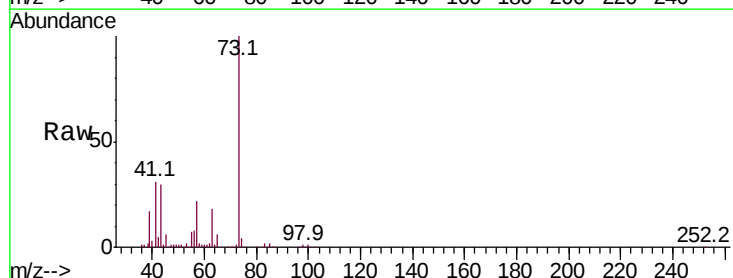
Acq: 10 Dec 2019 11:04

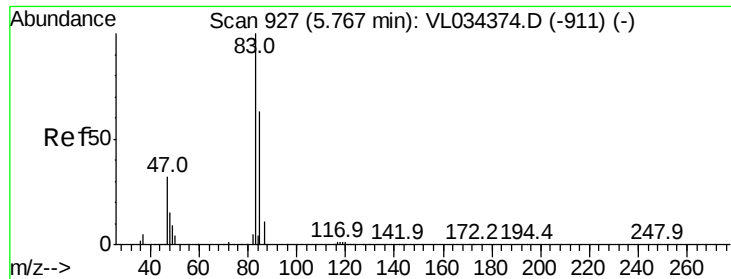
Tgt Ion: 73 Resp: 1411132

Ion Ratio Lower Upper

73 100

57 22.8 18.4 27.6

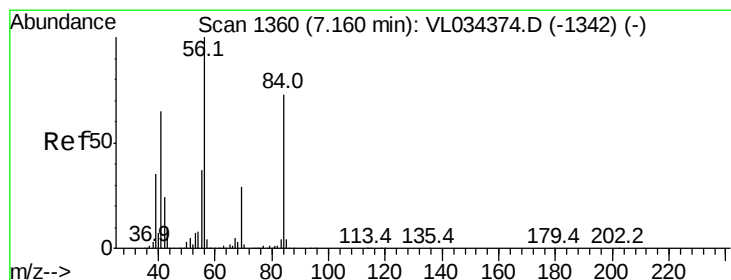
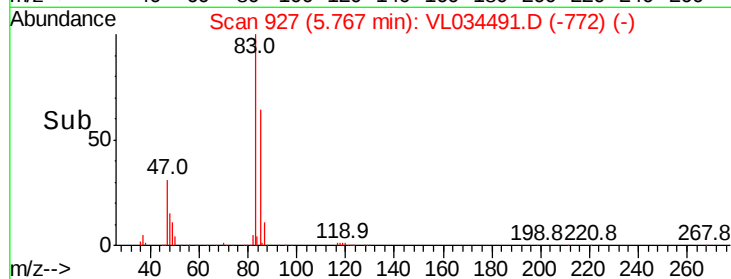
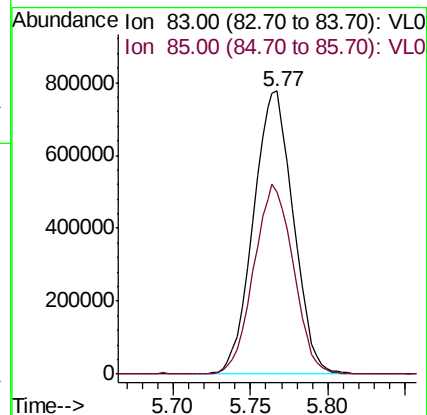
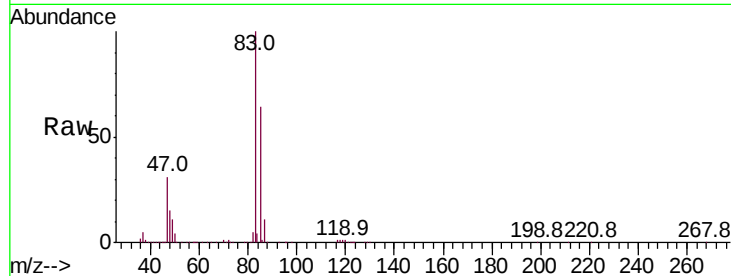




#29
Chloroform
Concen: 8.515 ppbv
RT: 5.77 min Scan# 927
Delta R.T. -0.00 min
Lab File: VL034491.D
Acq: 10 Dec 2019 11:04

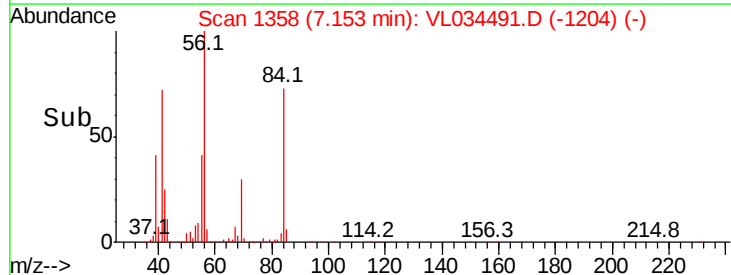
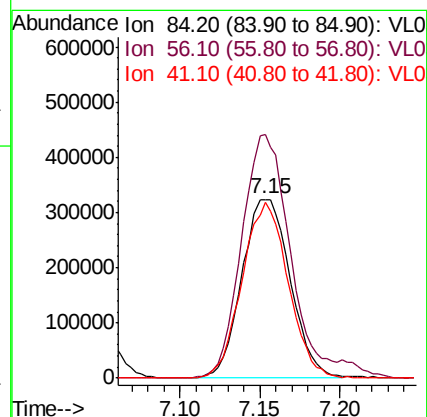
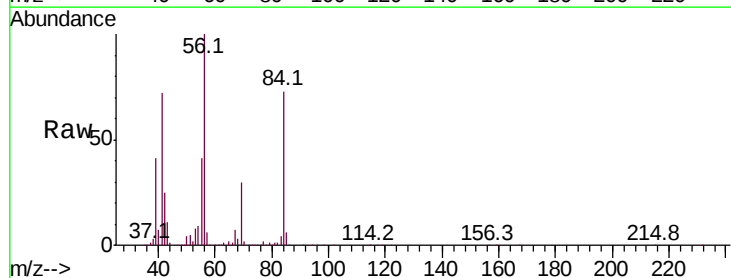
Instrument :
MSVOA_L
ClientSampleId :

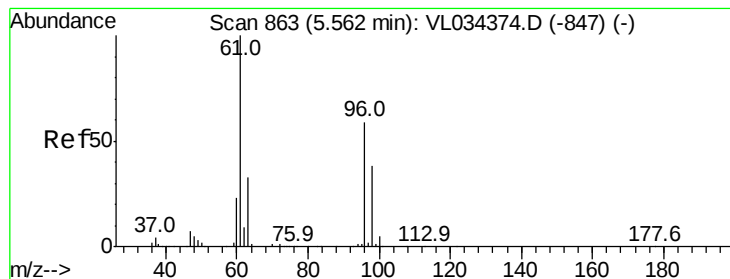
Tot Ion: 83 Resp: 1393588
Ion Ratio Lower Upper
83 100
85 64.4 50.4 75.6



#30
Cyclohexane
Concen: 8.746 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. -0.01 min
Lab File: VL034491.D
Acq: 10 Dec 2019 11:04

Tgt Ion: 84 Resp: 668209
Ion Ratio Lower Upper
84 100
56 140.8 112.6 169.0
41 93.9 73.4 110.2



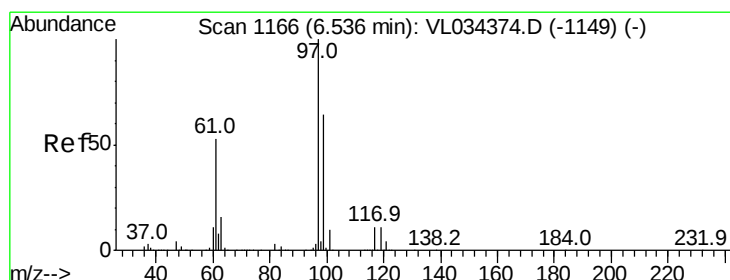
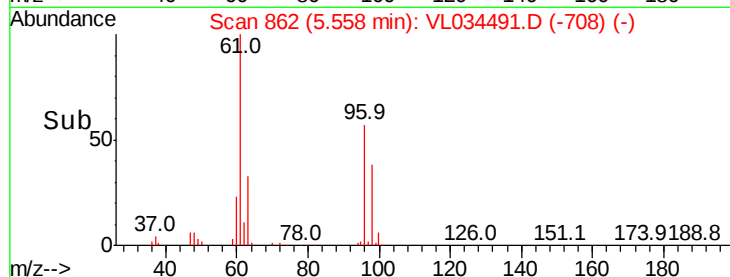
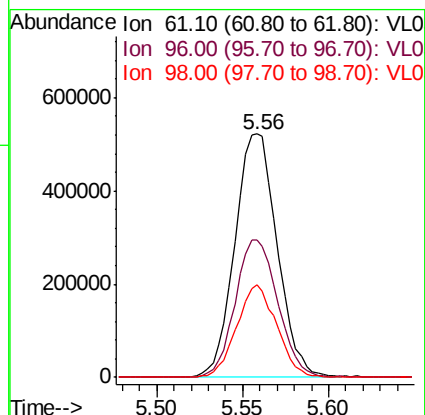
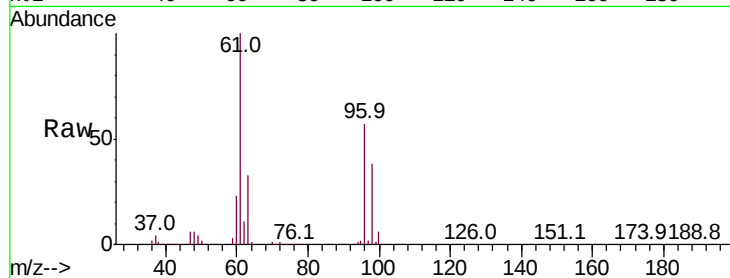


#31

cis-1,2-Dichloroethene
Concen: 8.543 ppbv
RT: 5.56 min Scan# 862
Delta R.T. -0.00 min
Lab File: VL034491.D
Acq: 10 Dec 2019 11:04

Instrument :
MSVOA_L
ClientSampleId :

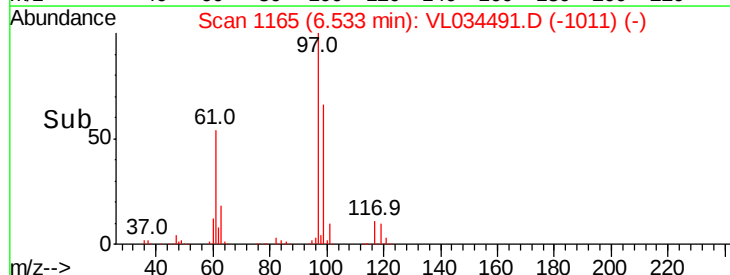
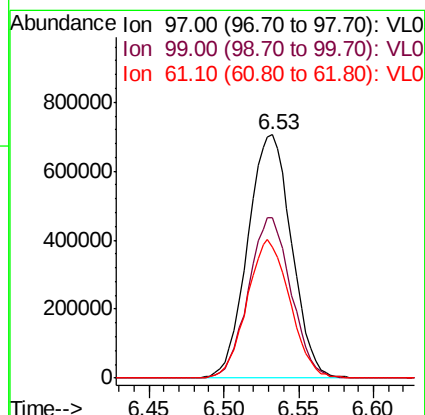
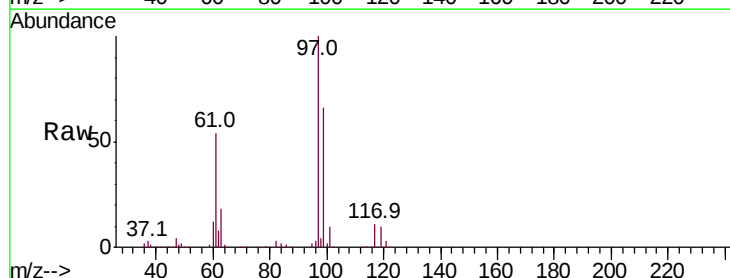
Tot Ion	Ratio	Lower	Upper
61	100		
96	56.4	47.4	71.2
98	37.7	30.6	45.8

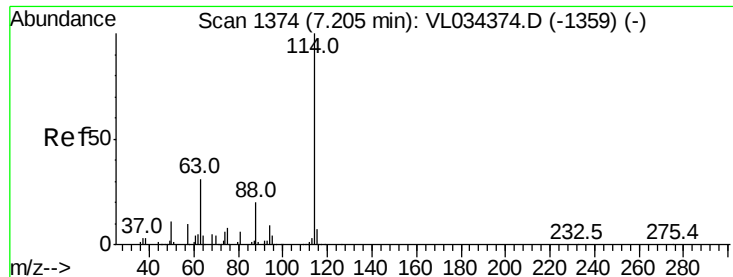


#32

1,1,1-Trichloroethane
Concen: 9.361 ppbv
RT: 6.53 min Scan# 1165
Delta R.T. -0.00 min
Lab File: VL034491.D
Acq: 10 Dec 2019 11:04

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.1	52.3	78.5
61	55.8	43.7	65.5

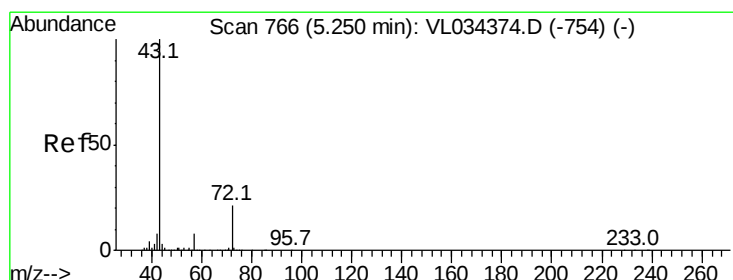
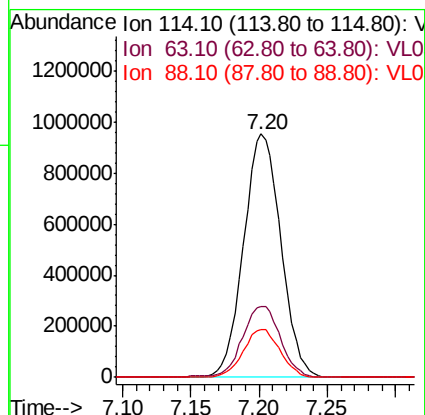
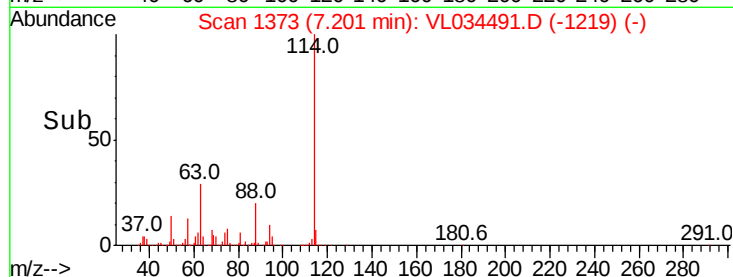
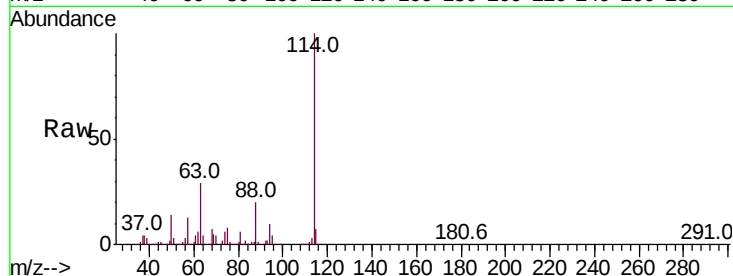




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1373
 Delta R.T. -0.00 min
 Lab File: VL034491.D
 Acq: 10 Dec 2019 11:04

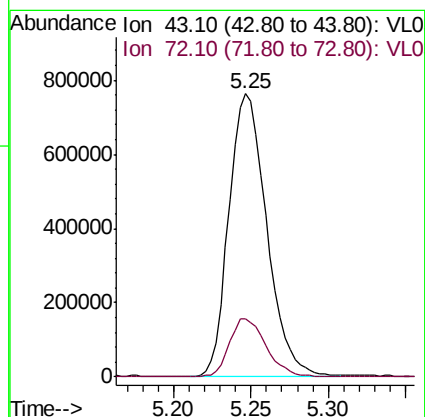
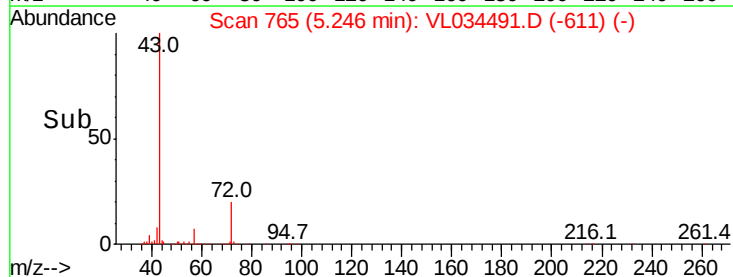
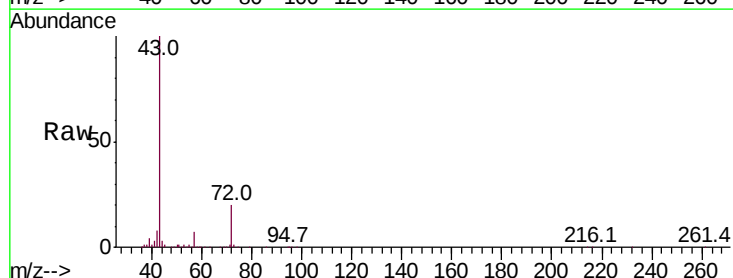
Instrument :
 MSVOA_L
 ClientSampleId :

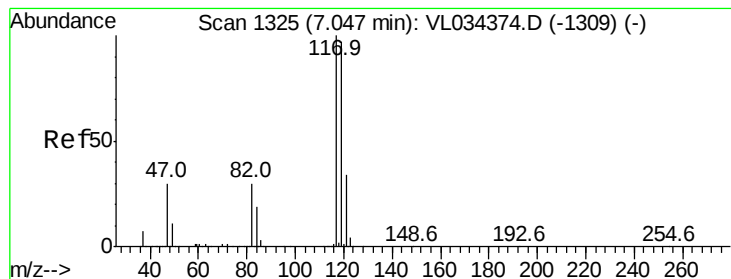
Tot Ion:114 Resp: 1804941
 Ion Ratio Lower Upper
 114 100
 63 30.1 24.2 36.4
 88 19.6 15.9 23.9



#34
 2-Butanone
 Concen: 8.717 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. -0.00 min
 Lab File: VL034491.D
 Acq: 10 Dec 2019 11:04

Tgt Ion: 43 Resp: 1295102
 Ion Ratio Lower Upper
 43 100
 72 20.0 17.0 25.6





#35

Carbon Tetrachloride

Concen: 9.828 ppbv

RT: 7.04 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Instrument :

MSVOA_L

ClientSampleId :

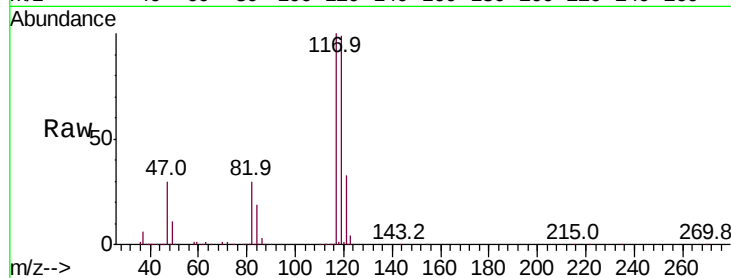
Tot Ion:117 Resp: 1525161

Ion Ratio Lower Upper

117 100

119 99.1 77.3 115.9

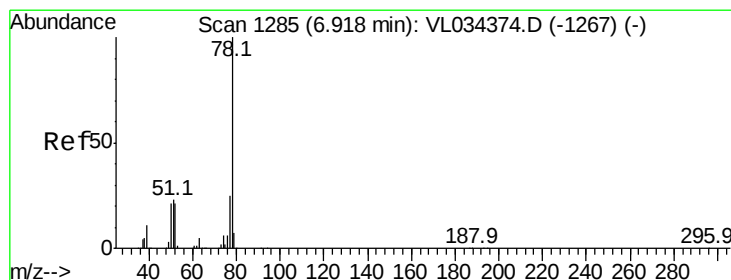
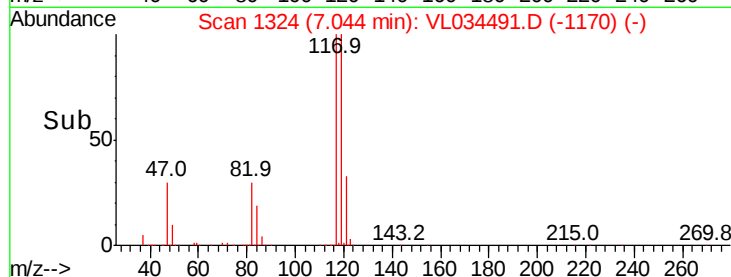
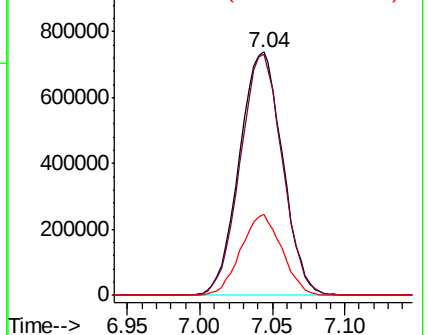
121 33.3 27.4 41.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 8.842 ppbv

RT: 6.91 min Scan# 1283

Delta R.T. -0.01 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

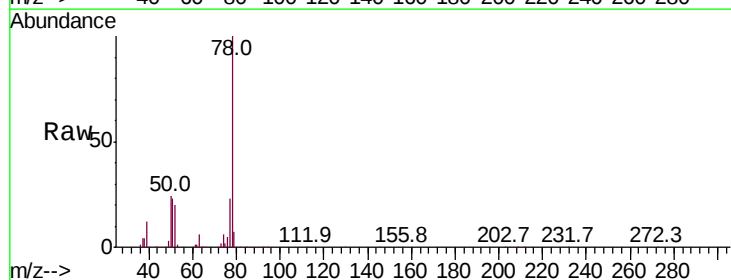
Tgt Ion: 78 Resp: 1595428

Ion Ratio Lower Upper

78 100

77 22.9 20.2 30.4

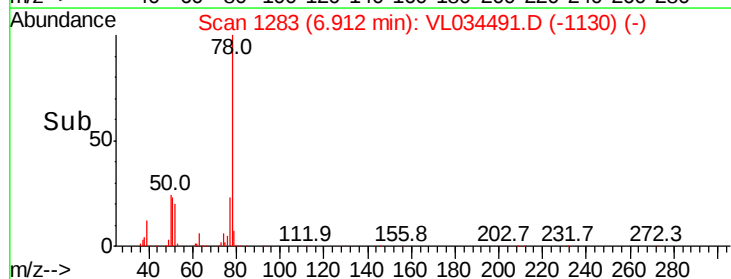
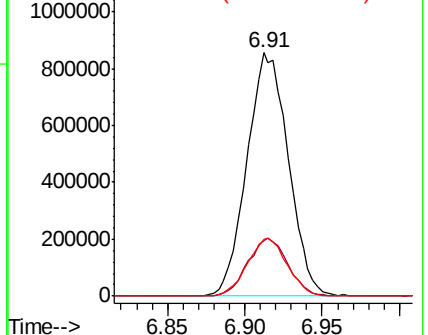
50 23.5 17.1 25.7

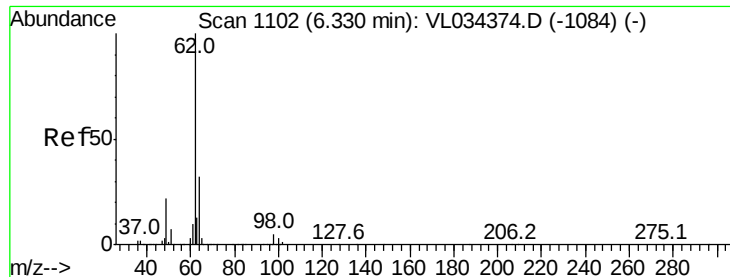


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 9.280 ppbv

RT: 6.32 min Scan# 1100

Delta R.T. -0.01 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

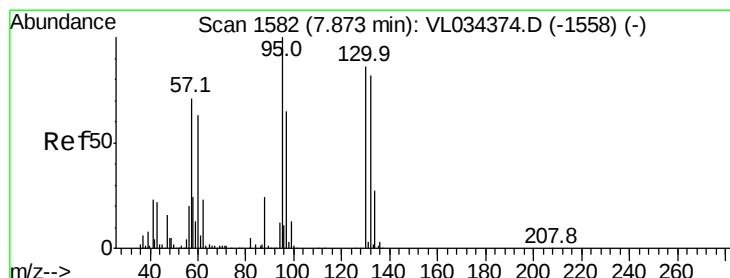
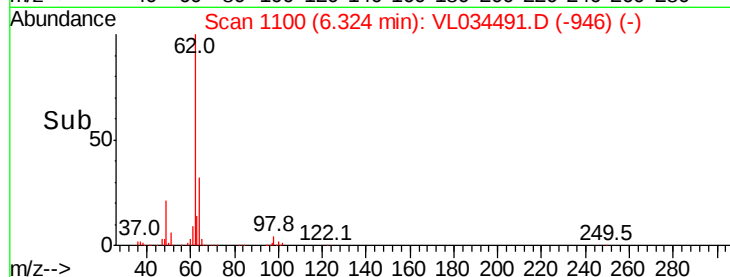
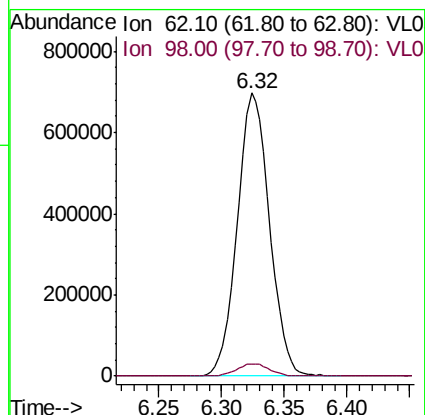
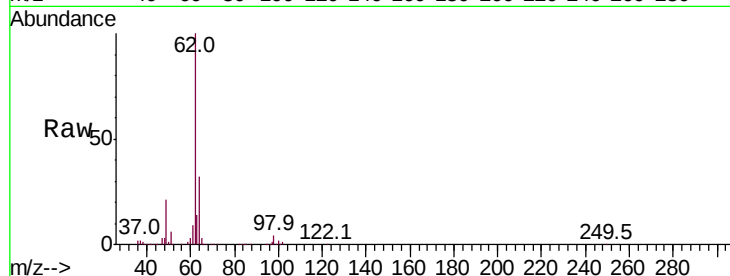
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 62 Resp: 1243866

Ion Ratio Lower Upper

62 100

98 4.4 3.8 5.8



#38

Trichloroethene

Concen: 8.564 ppbv

RT: 7.87 min Scan# 1580

Delta R.T. -0.01 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Tgt Ion:130 Resp: 634086

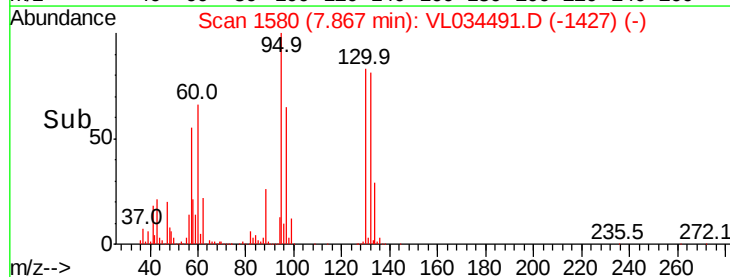
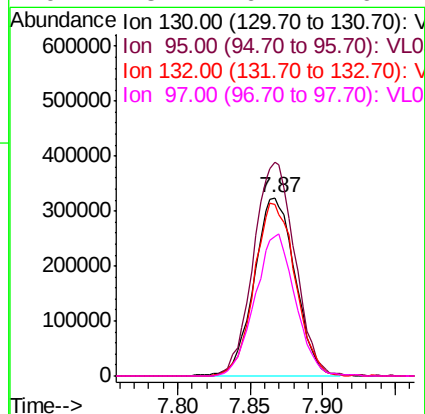
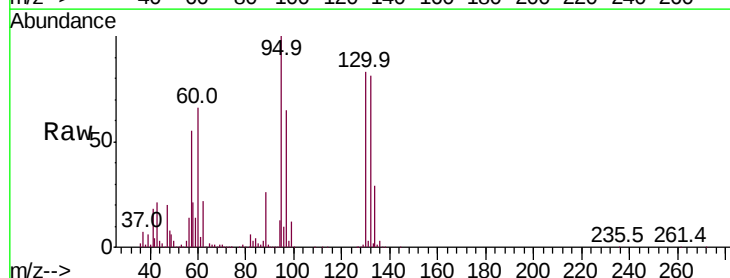
Ion Ratio Lower Upper

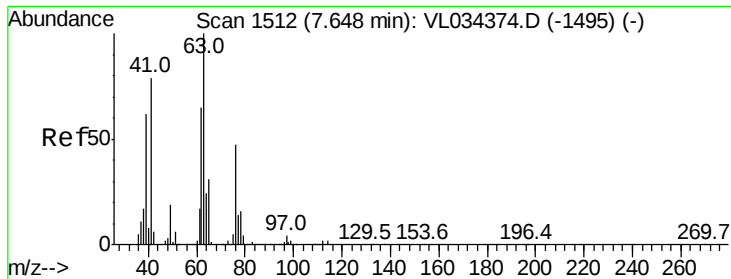
130 100

95 120.2 93.4 140.0

132 96.9 76.4 114.6

97 78.4 61.1 91.7





#39

1,2-Dichloropropane

Concen: 9.513 ppbv

RT: 7.64 min Scan# 1510

Delta R.T. -0.01 min

Lab File: VL034491.D

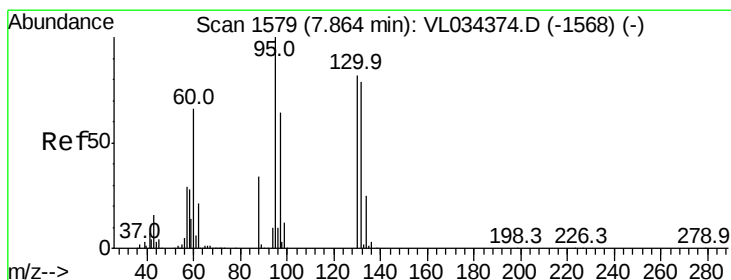
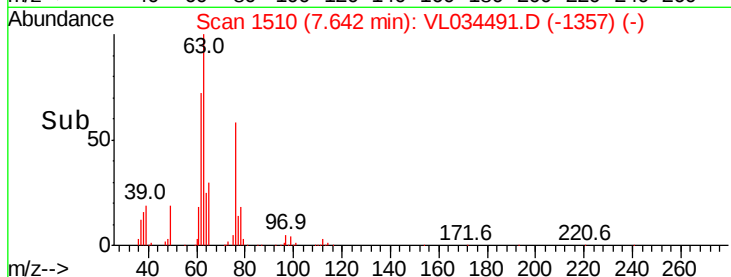
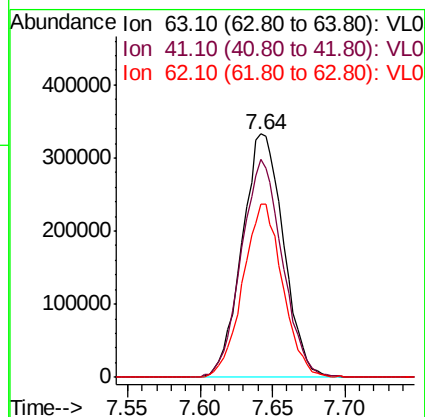
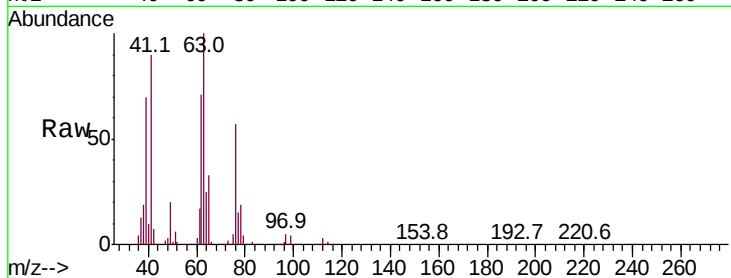
Acq: 10 Dec 2019 11:04

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	63	Resp:	661236
Ion	Ratio	Lower	Upper
63	100		
41	89.5	63.1	94.7
62	71.2	52.3	78.5



#40

1,4-Dioxane

Concen: 4.745 ppbv

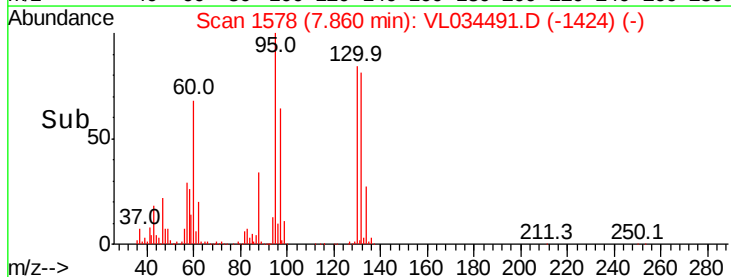
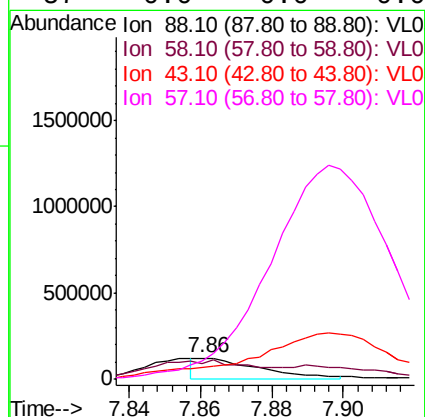
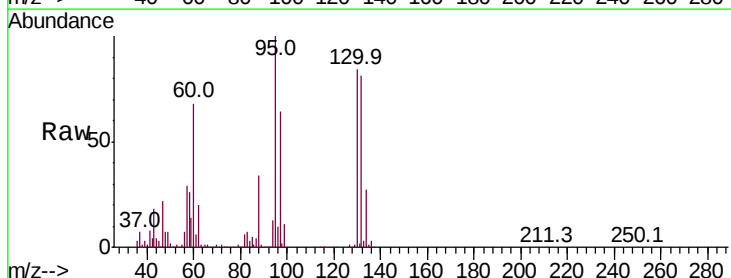
RT: 7.86 min Scan# 1578

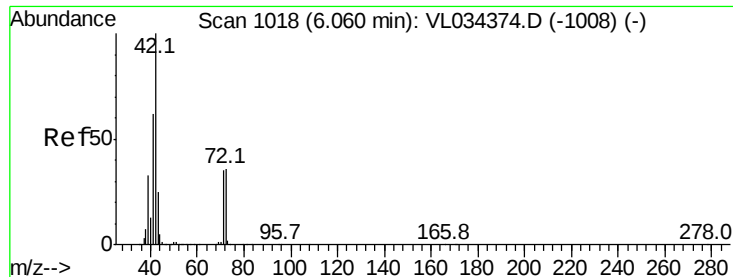
Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Tgt Ion:	88	Resp:	144093
Ion	Ratio	Lower	Upper
88	100		
58	251.7	109.5	164.3#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 8.713 ppbv

RT: 6.06 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Instrument :
MSVOA_L
ClientSampled :

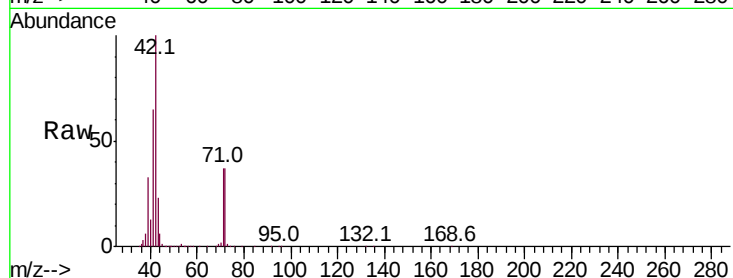
Tot Ion: 42 Resp: 726026

Ion Ratio Lower Upper

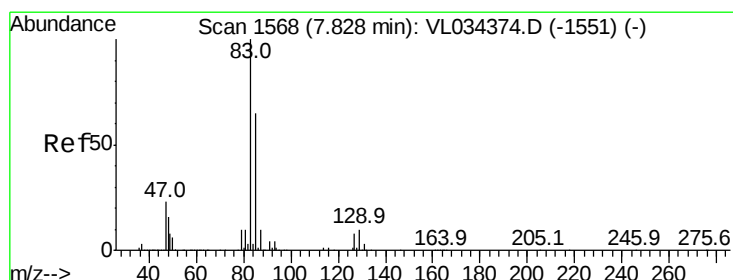
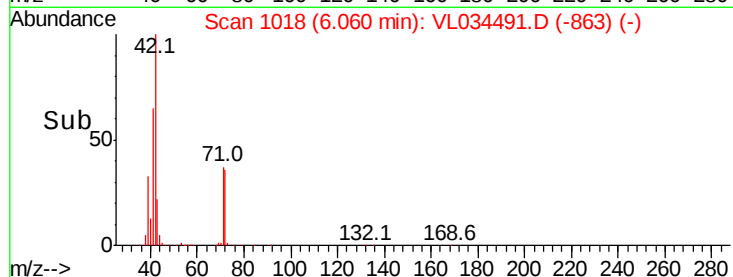
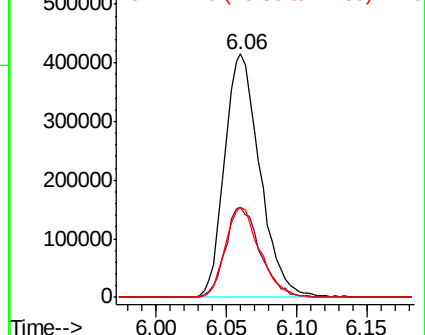
42 100

72 36.5 30.2 45.4

71 36.3 29.4 44.2



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 9.298 ppbv

RT: 7.82 min Scan# 1566

Delta R.T. -0.01 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

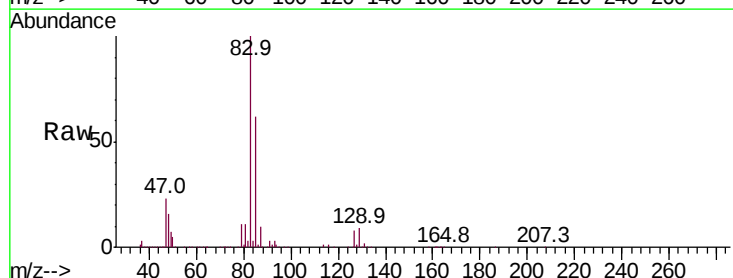
Tgt Ion: 83 Resp: 1558652

Ion Ratio Lower Upper

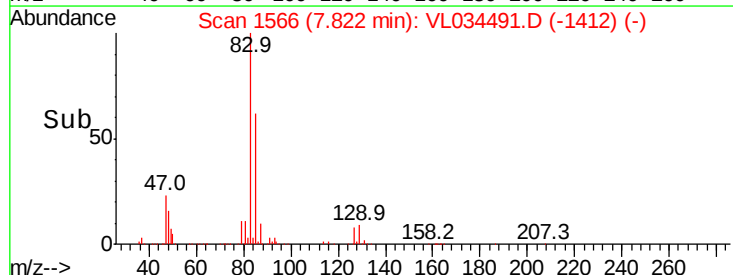
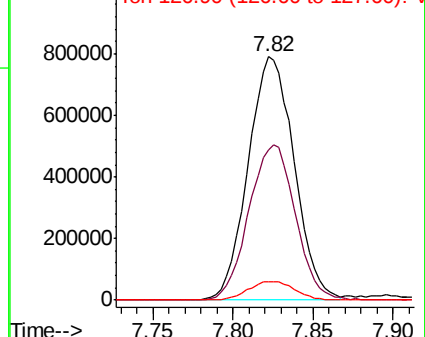
83 100

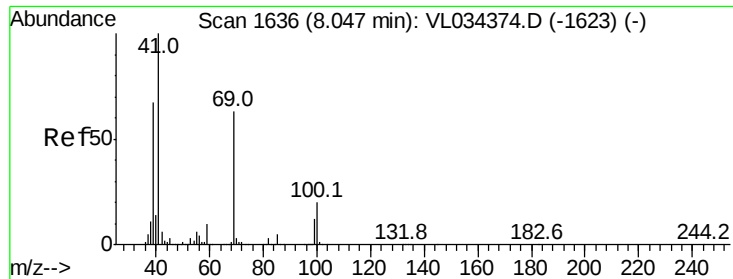
85 61.6 52.3 78.5

127 7.5 6.1 9.1



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V

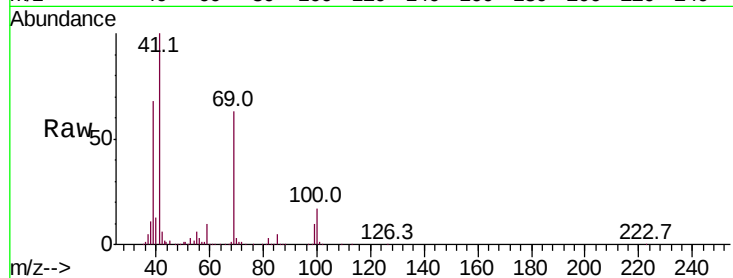




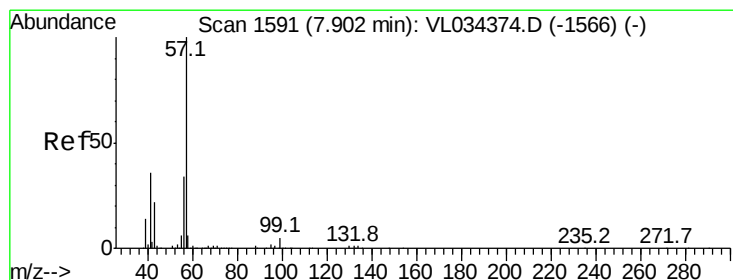
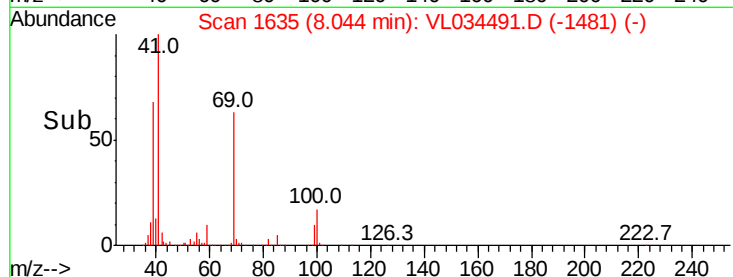
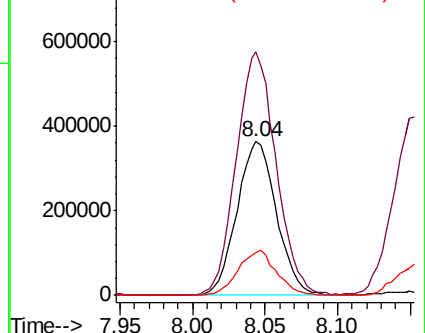
#43
Methvl Methacrilate
Concen: 9.190 ppbv
RT: 8.04 min Scan# 1635
Delta R.T. -0.00 min
Lab File: VL034491.D
Acq: 10 Dec 2019 11:04

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 69 Resp: 687735
Ion Ratio Lower Upper
69 100
41 160.4 127.4 191.2
100 28.3 24.2 36.4

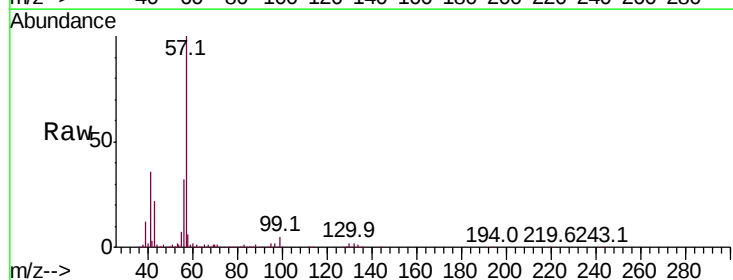


Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0

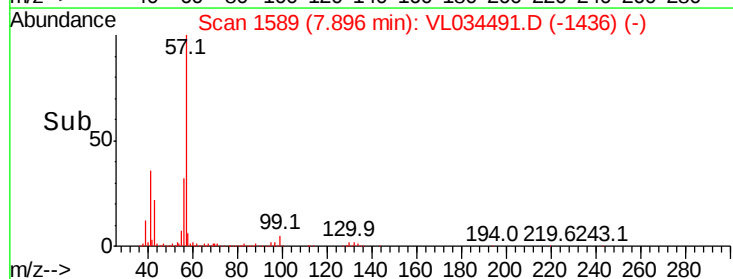
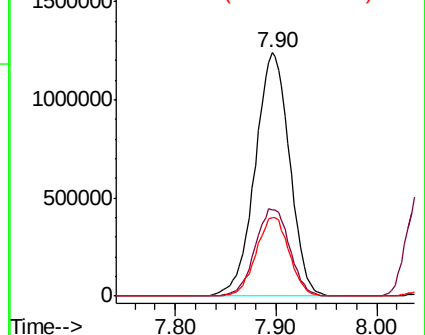


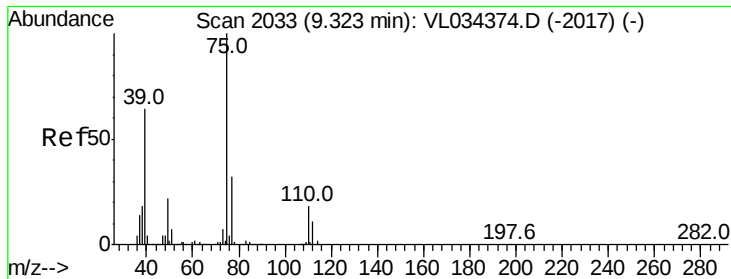
#44
2,2,4-Trimethylpentane
Concen: 8.909 ppbv
RT: 7.90 min Scan# 1589
Delta R.T. -0.01 min
Lab File: VL034491.D
Acq: 10 Dec 2019 11:04

Tgt Ion: 57 Resp: 2937672
Ion Ratio Lower Upper
57 100
41 36.0 28.6 42.8
56 31.0 25.3 37.9



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





#45

t-1,3-Dichloropropene

Concen: 9.333 ppbv

RT: 9.32 min Scan# 2032

Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

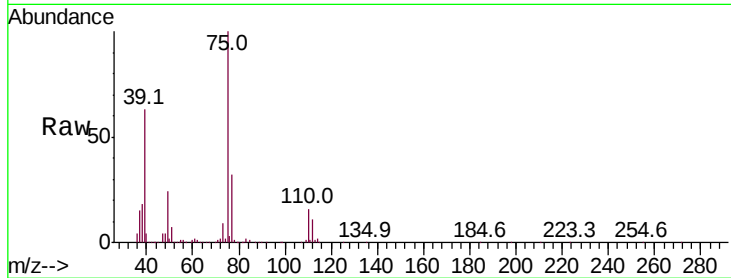
Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 75 Resp: 895690

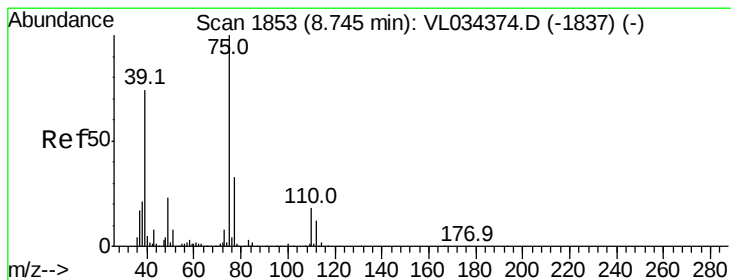
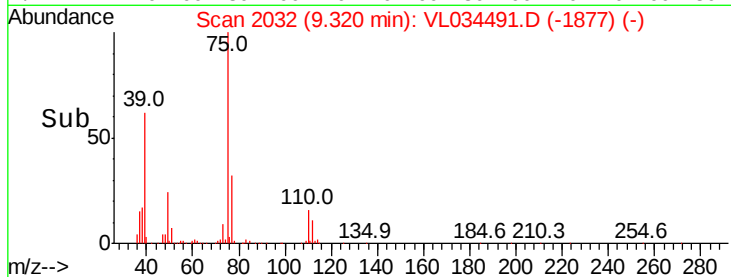
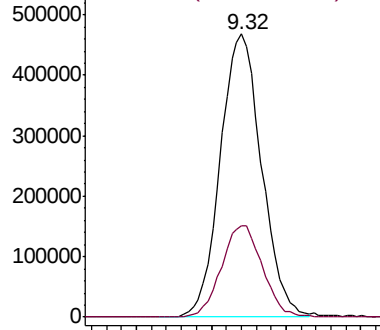
Ion Ratio Lower Upper

75 100

77 32.1 25.4 38.2



Abundance Ion 75.10 (74.80 to 75.80): VL0
Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 9.330 ppbv

RT: 8.74 min Scan# 1852

Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

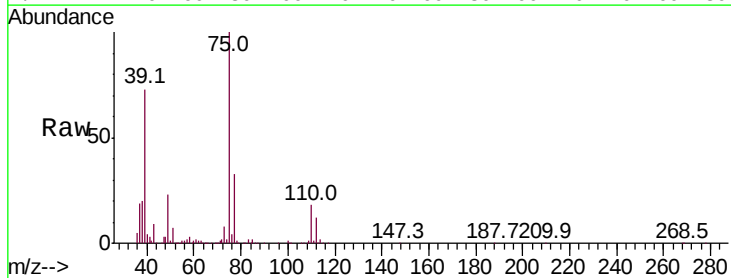
Tgt Ion: 75 Resp: 1005837

Ion Ratio Lower Upper

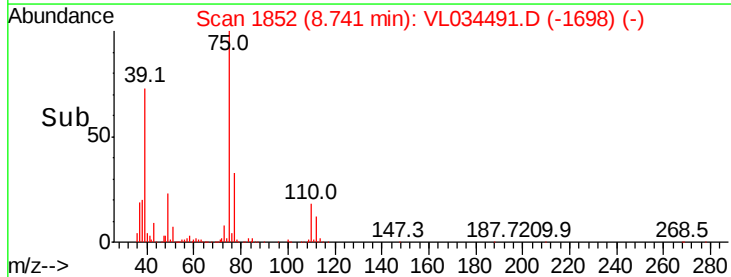
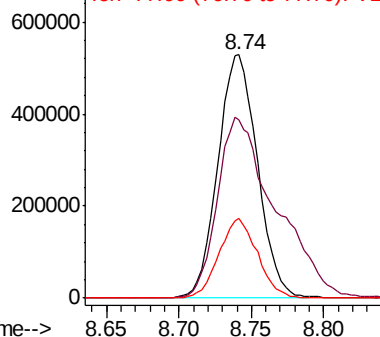
75 100

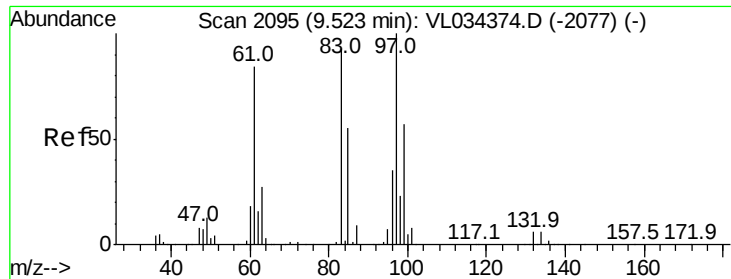
39 73.4 59.0 88.6

77 32.9 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VL0
Ion 39.00 (38.70 to 39.70): VL0
Ion 77.00 (76.70 to 77.70): VL0





#47

1,1,2-Trichloroethane

Concen: 8.938 ppbv

RT: 9.52 min Scan# 2094

Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 97 Resp: 691131

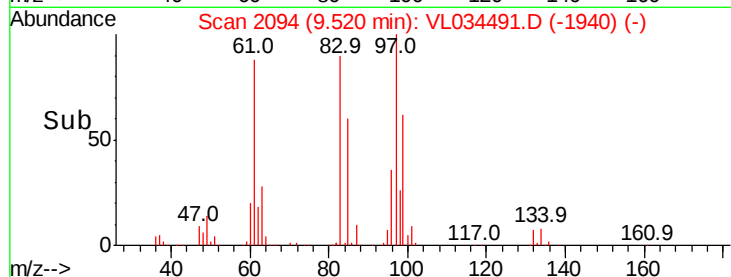
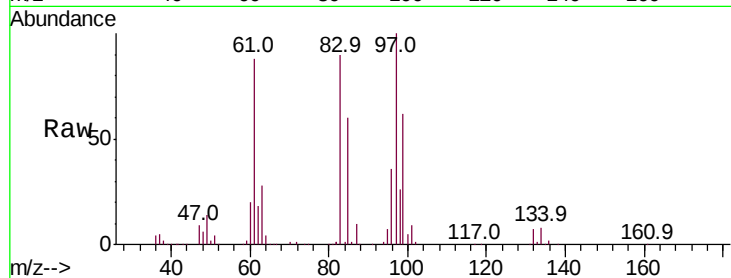
Ion Ratio Lower Upper

97 100

83 90.1 74.6 112.0

85 59.8 43.8 65.8

99 62.4 45.6 68.4

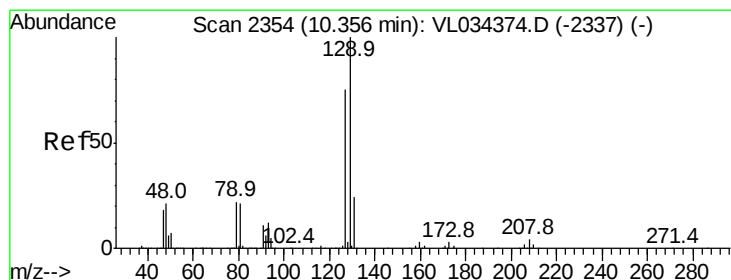
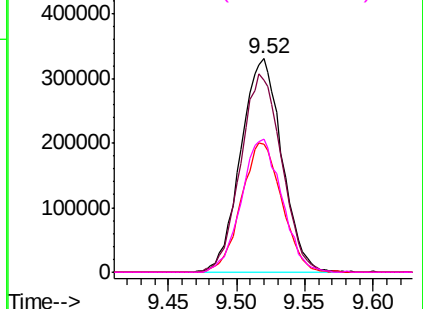


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 9.804 ppbv

RT: 10.35 min Scan# 2353

Delta R.T. -0.00 min

Lab File: VL034491.D

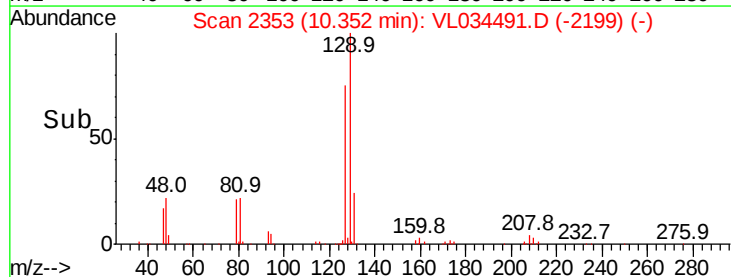
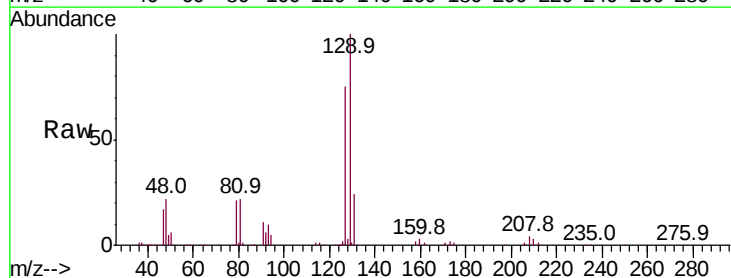
Acq: 10 Dec 2019 11:04

Tgt Ion: 129 Resp: 1301602

Ion Ratio Lower Upper

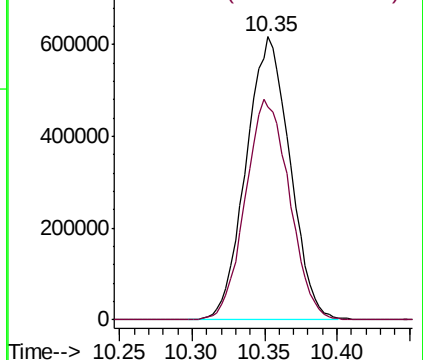
129 100

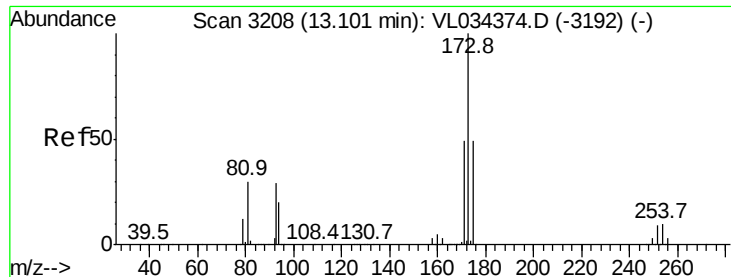
127 78.3 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 9.865 ppbv

RT: 13.10 min Scan# 3208

Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Instrument :

MSVOA_L

ClientSampleId :

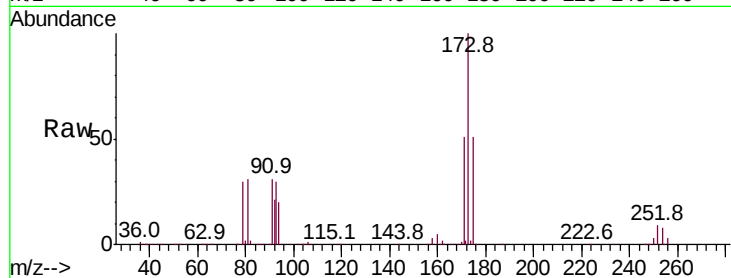
Tot Ion:173 Resp: 1169102

Ion Ratio Lower Upper

173 100

175 50.1 39.3 58.9

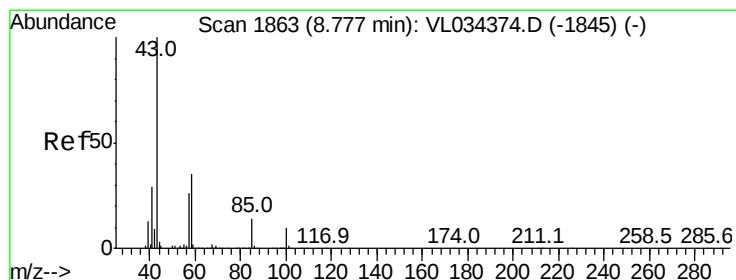
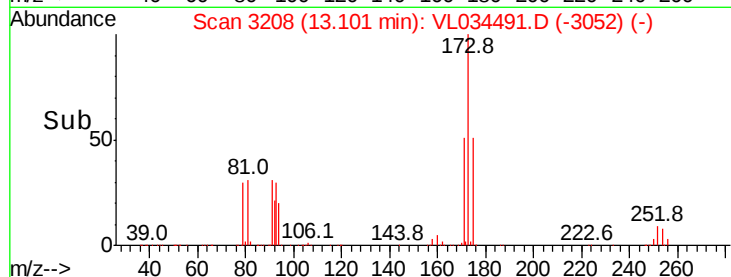
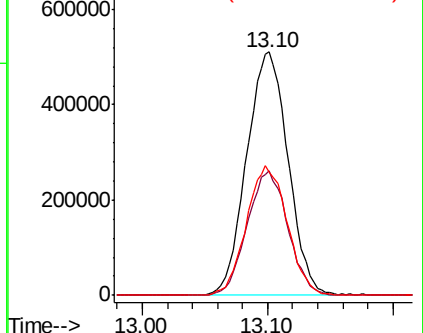
171 52.4 42.4 63.6



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: 9.154 ppbv

RT: 8.77 min Scan# 1861

Delta R.T. -0.01 min

Lab File: VL034491.D

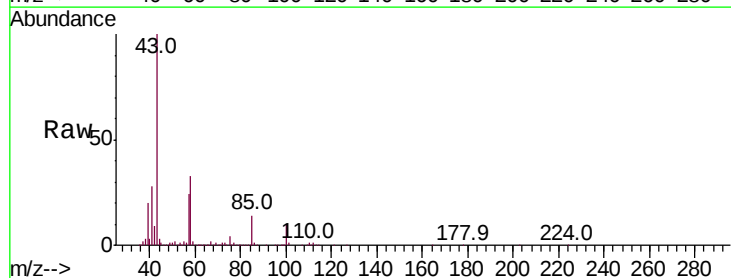
Acq: 10 Dec 2019 11:04

Tgt Ion: 43 Resp: 1967774

Ion Ratio Lower Upper

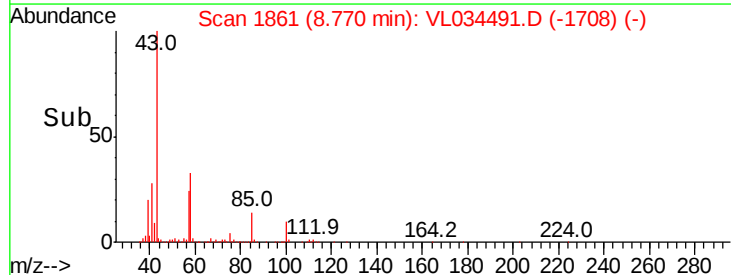
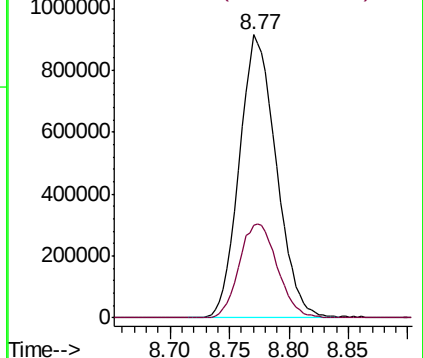
43 100

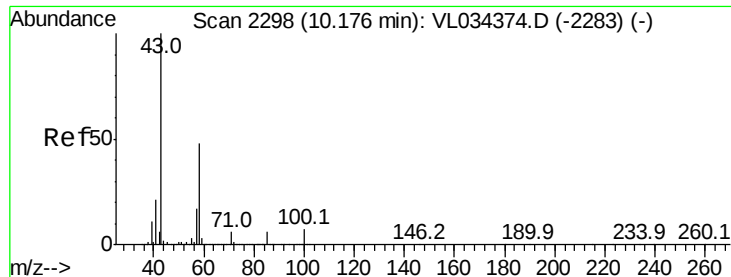
58 34.4 27.9 41.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

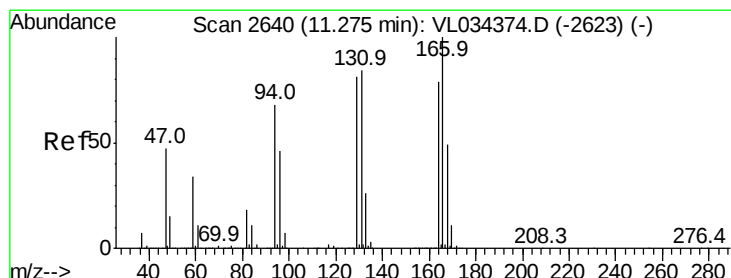
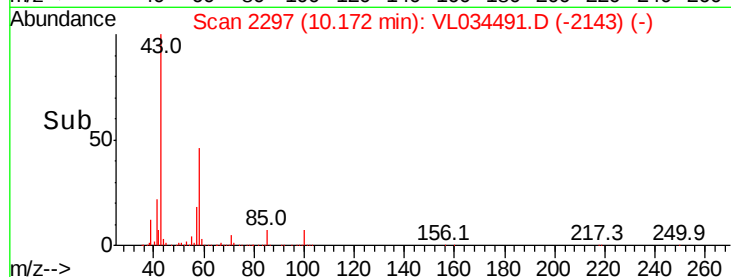
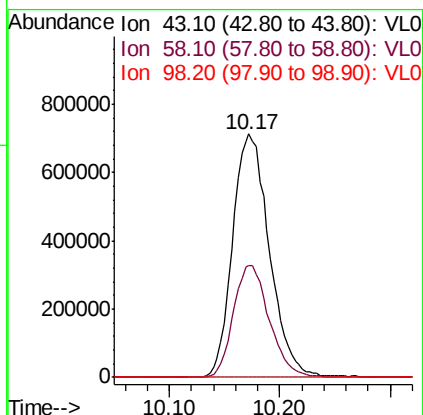
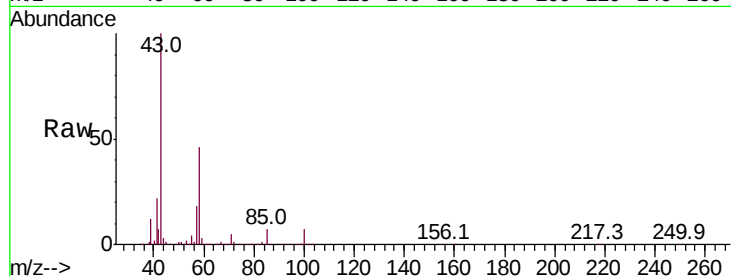




#51
2-Hexanone
Concen: 9.147 ppbv
RT: 10.17 min Scan# 2297
Delta R.T. -0.00 min
Lab File: VL034491.D
Acq: 10 Dec 2019 11:04

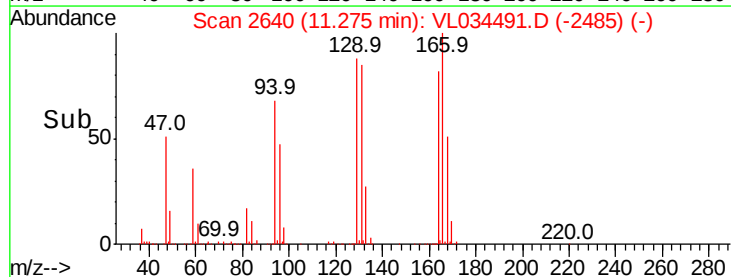
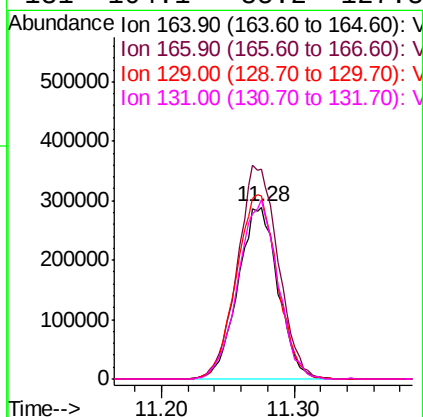
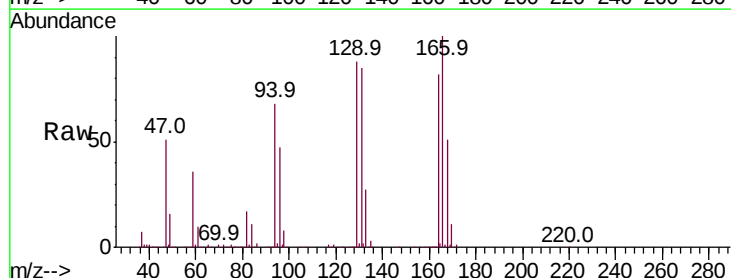
Instrument :
MSVOA_L
ClientSampleId :

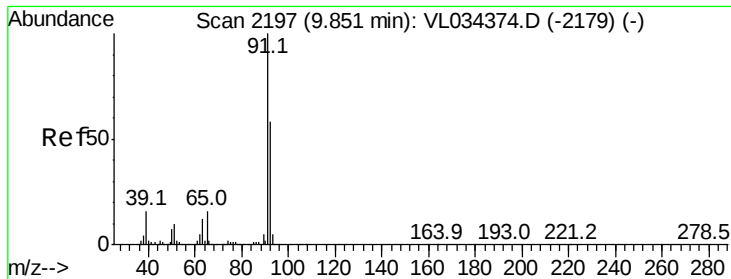
Tot Ion: 43 Resp: 1646961
Ion Ratio Lower Upper
43 100
58 45.1 38.2 57.4
98 0.2 0.2 0.2



#52
Tetrachloroethene
Concen: 7.762 ppbv
RT: 11.28 min Scan# 2640
Delta R.T. -0.00 min
Lab File: VL034491.D
Acq: 10 Dec 2019 11:04

Tgt Ion:164 Resp: 605949
Ion Ratio Lower Upper
164 100
166 122.1 101.7 152.5
129 106.8 82.6 123.8
131 104.1 85.2 127.8





#53

Toluene

Concen: 9.033 ppbv

RT: 9.85 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Instrument :

MSVOA_L

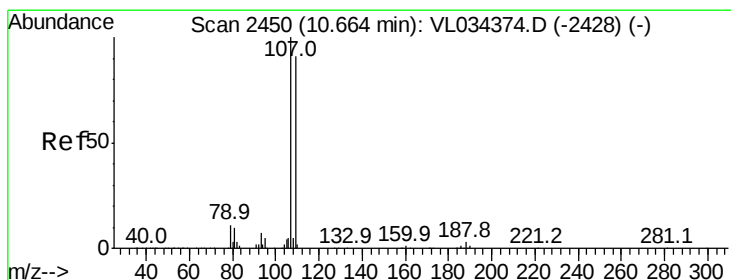
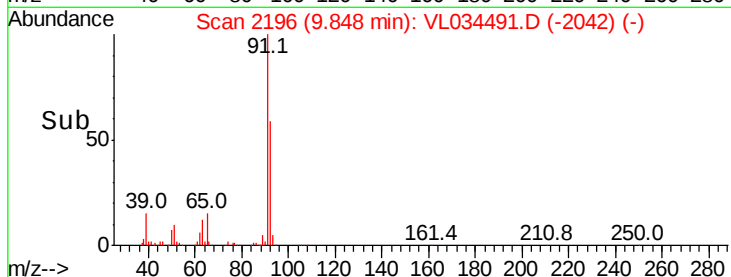
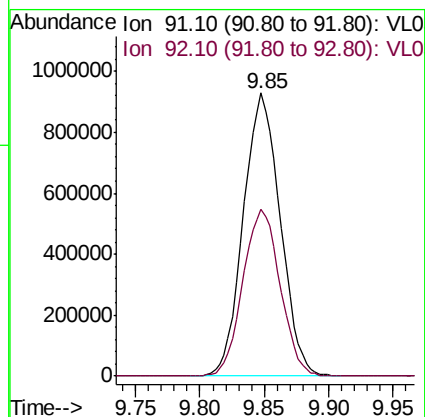
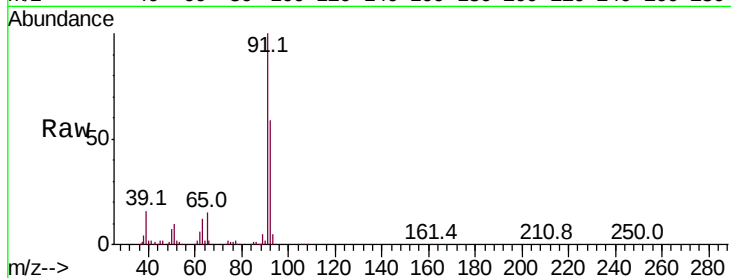
ClientSampleId :

Tot Ion: 91 Resp: 1851357

Ion Ratio Lower Upper

91 100

92 59.5 47.9 71.9



#54

1,2-Dibromoethane

Concen: 9.274 ppbv

RT: 10.66 min Scan# 2449

Delta R.T. -0.00 min

Lab File: VL034491.D

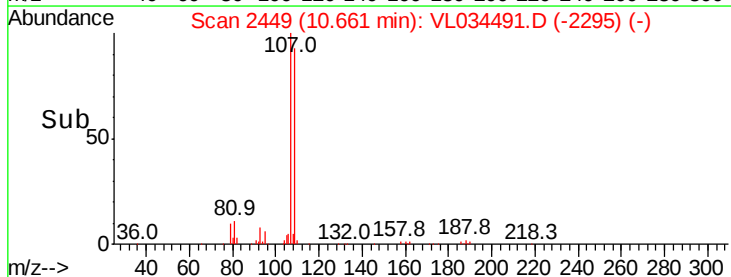
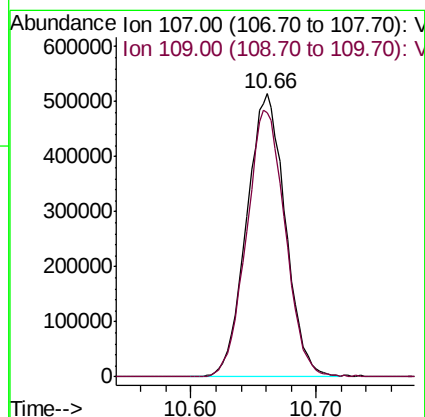
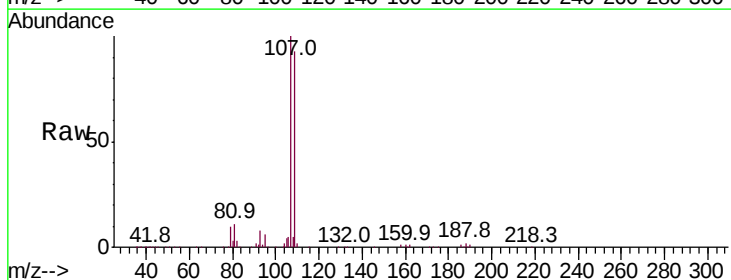
Acq: 10 Dec 2019 11:04

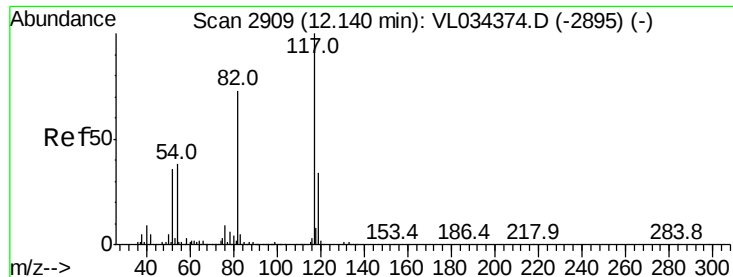
Tgt Ion: 107 Resp: 1099368

Ion Ratio Lower Upper

107 100

109 93.3 73.0 109.4

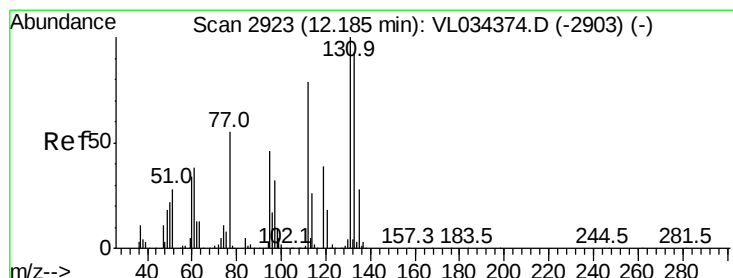
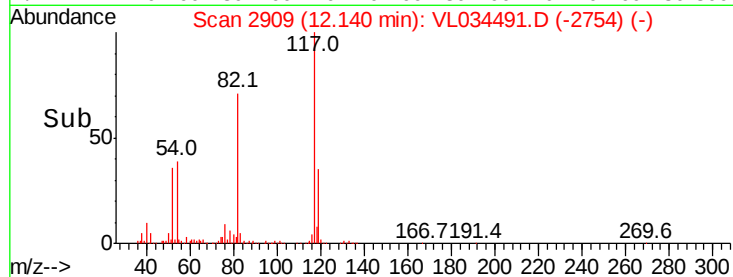
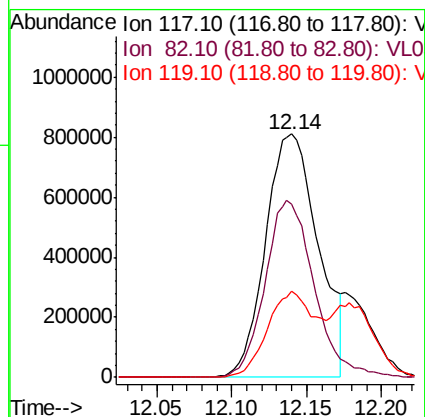
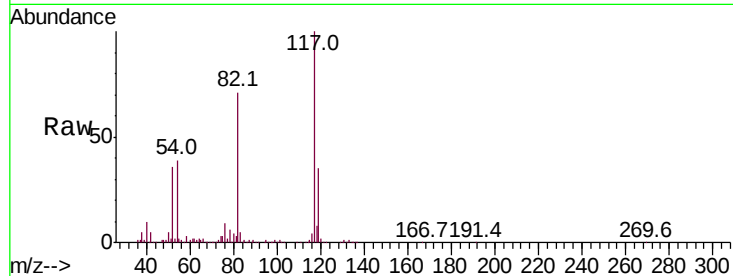




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2909
Delta R.T. -0.00 min
Lab File: VL034491.D
Acq: 10 Dec 2019 11:04

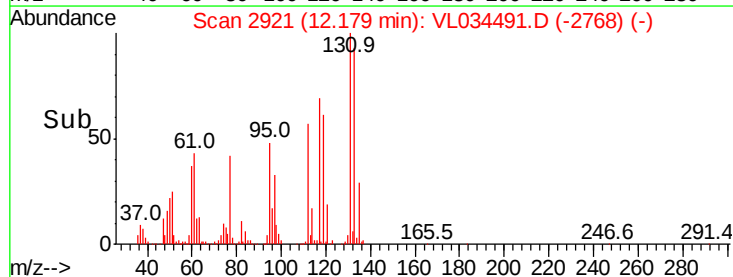
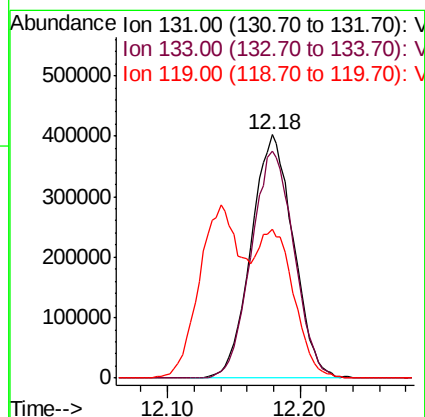
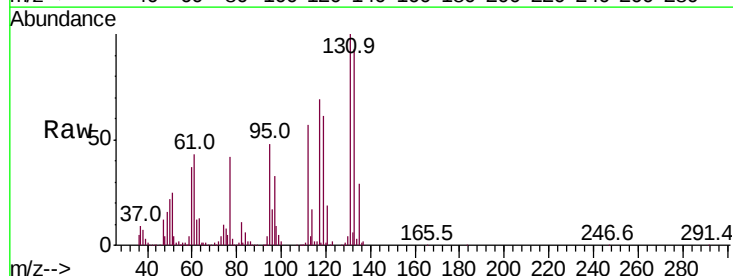
Instrument :
MSVOA_L
ClientSampleId :

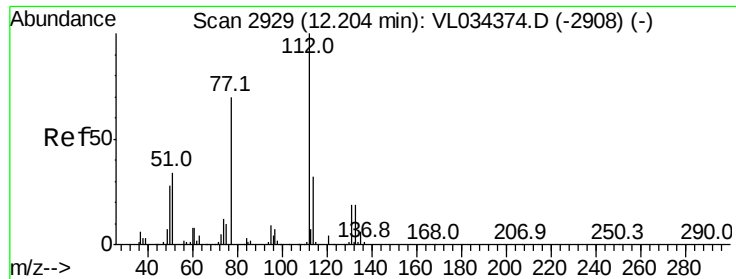
Tot Ion:117 Resp: 1981222
Ion Ratio Lower Upper
117 100
82 68.2 57.5 86.3
119 34.7 25.4 38.2



#56
1,1,1,2-Tetrachloroethane
Concen: 9.217 ppbv
RT: 12.18 min Scan# 2921
Delta R.T. -0.01 min
Lab File: VL034491.D
Acq: 10 Dec 2019 11:04

Tgt Ion:131 Resp: 893279
Ion Ratio Lower Upper
131 100
133 94.5 76.2 114.2
119 58.2 44.6 67.0

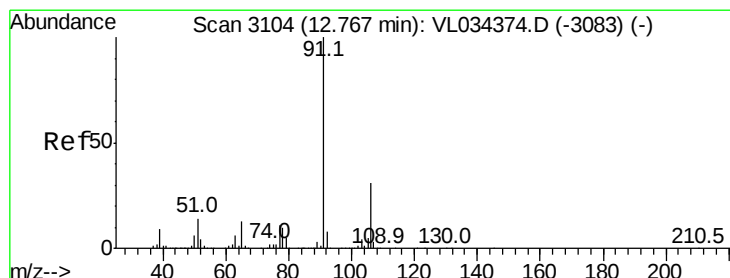
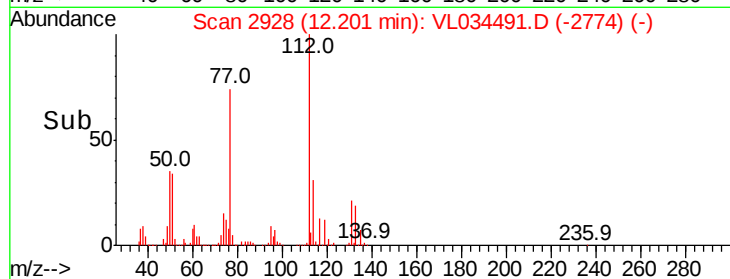
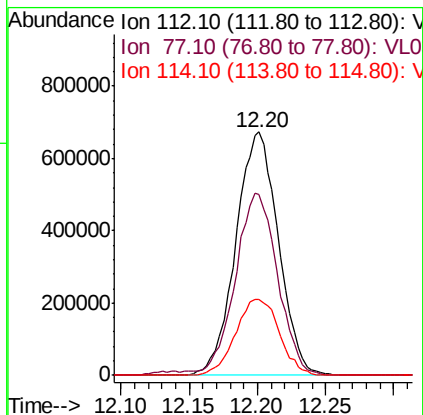
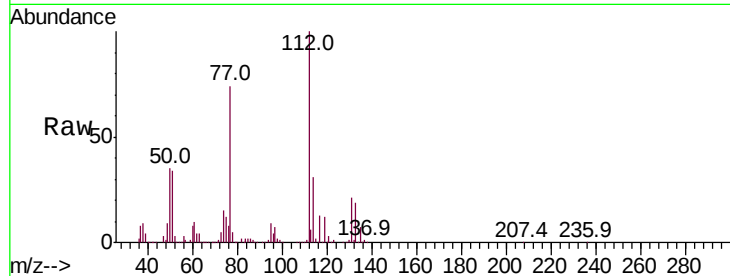




#57
Chlorobenzene
Concen: 8.089 ppbv
RT: 12.20 min Scan# 2928
Delta R.T. -0.00 min
Lab File: VL034491.D
Acq: 10 Dec 2019 11:04

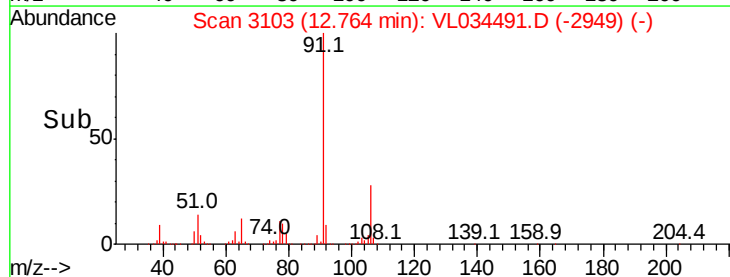
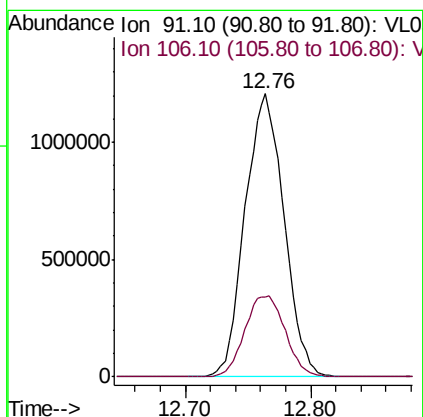
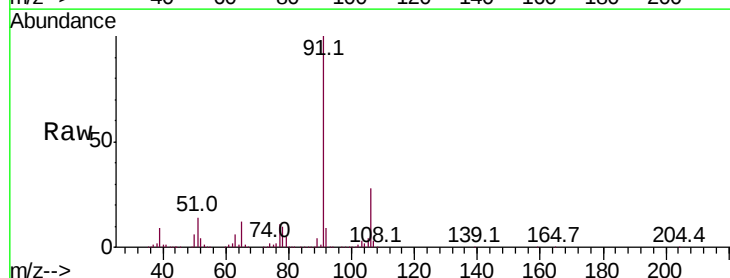
Instrument :
MSVOA_L
ClientSampled :

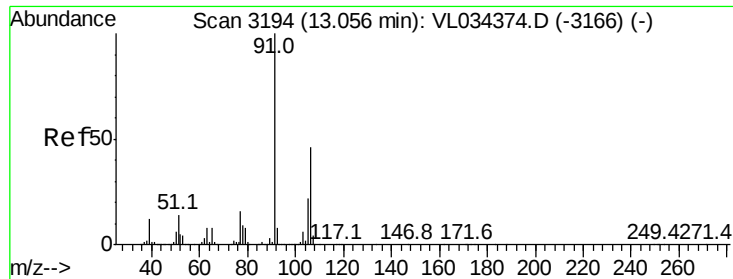
Tot Ion:112 Resp: 1448665
Ion Ratio Lower Upper
112 100
77 74.0 57.1 85.7
114 31.4 28.5 34.9



#58
Ethyl Benzene
Concen: 8.462 ppbv
RT: 12.76 min Scan# 3103
Delta R.T. -0.00 min
Lab File: VL034491.D
Acq: 10 Dec 2019 11:04

Tgt Ion: 91 Resp: 2601761
Ion Ratio Lower Upper
91 100
106 28.0 24.8 37.2

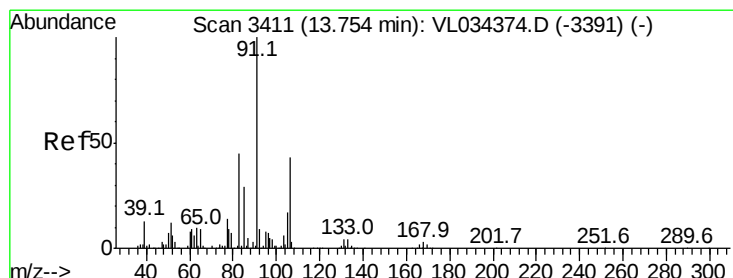
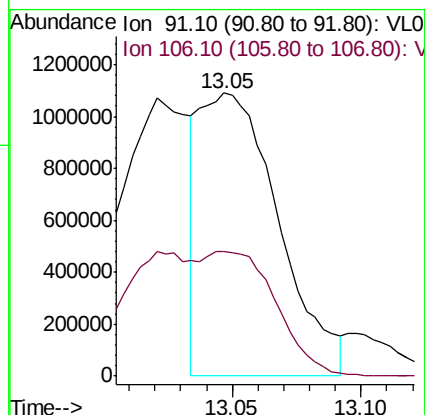
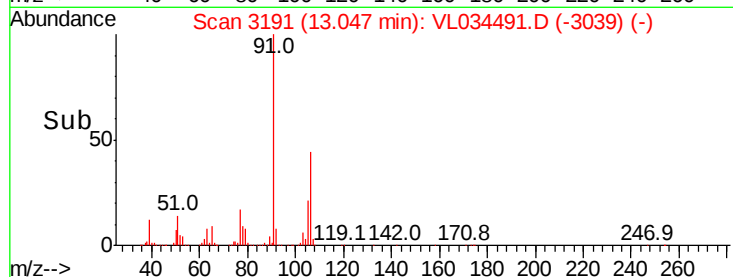
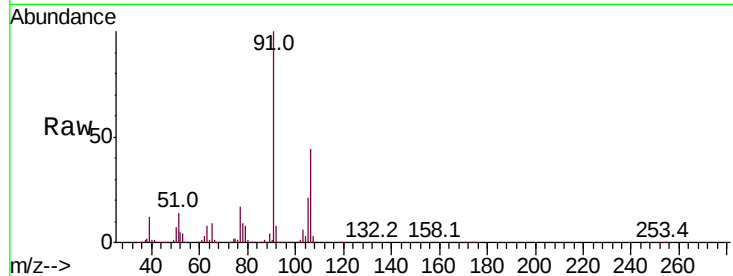




#59
m/p-Xylene
Concen: 8.691 ppbv
RT: 13.05 min Scan# 3191
Delta R.T. -0.01 min
Lab File: VL034491.D
Acq: 10 Dec 2019 11:04

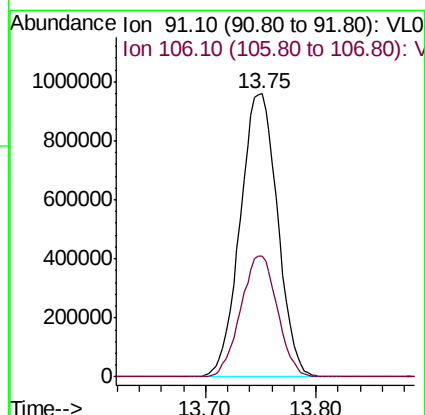
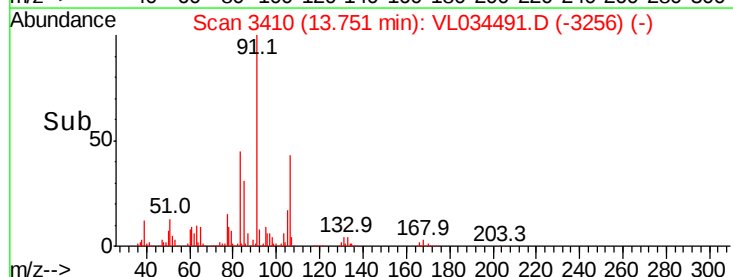
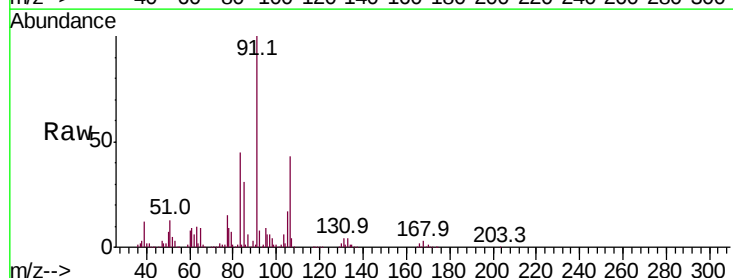
Instrument :
MSVOA_L
ClientSampleId :

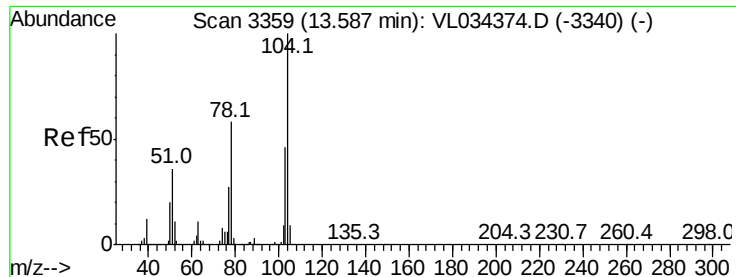
Tot Ion: 91 Resp: 2309865
Ion Ratio Lower Upper
91 100
106 82.6 34.6 51.8#



#60
o-Xylene
Concen: 8.546 ppbv
RT: 13.75 min Scan# 3410
Delta R.T. -0.00 min
Lab File: VL034491.D
Acq: 10 Dec 2019 11:04

Tgt Ion: 91 Resp: 2245737
Ion Ratio Lower Upper
91 100
106 42.0 21.3 64.0





#61

Stvrene

Concen: 8.278 ppbv

RT: 13.59 min Scan# 3359

Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Instrument :

MSVOA_L

ClientSampleId :

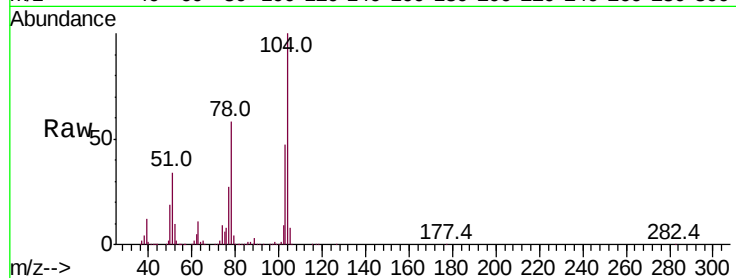
Tot Ion:104 Resp: 1568682

Ion Ratio Lower Upper

104 100

78 60.4 47.6 71.4

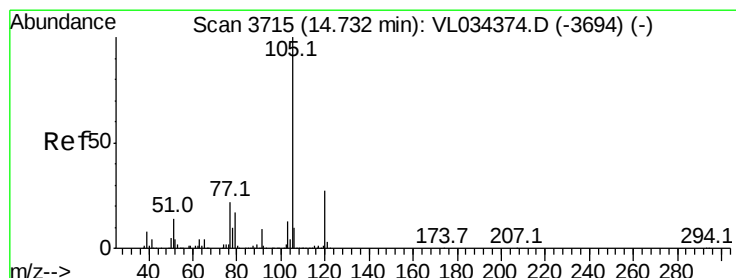
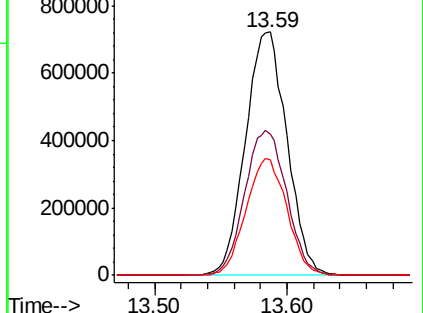
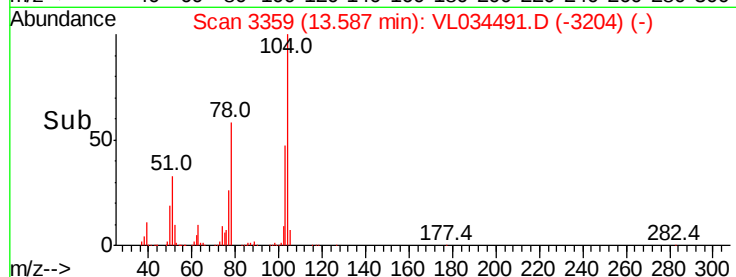
103 47.5 38.6 57.8



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 8.444 ppbv

RT: 14.73 min Scan# 3713

Delta R.T. -0.01 min

Lab File: VL034491.D

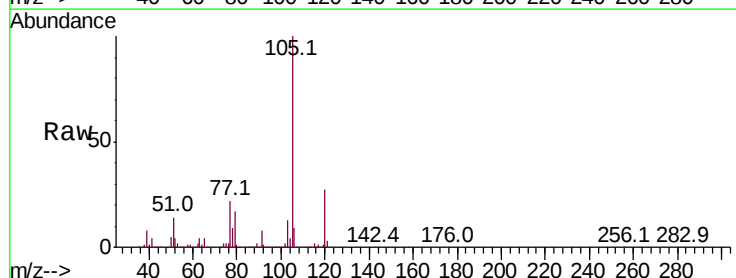
Acq: 10 Dec 2019 11:04

Tgt Ion:105 Resp: 2934421

Ion Ratio Lower Upper

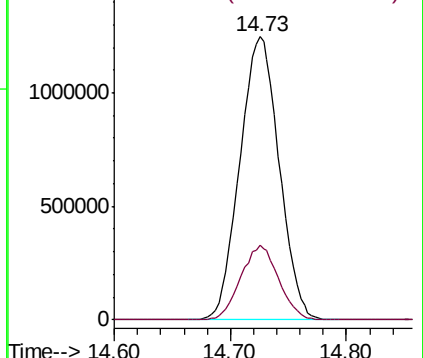
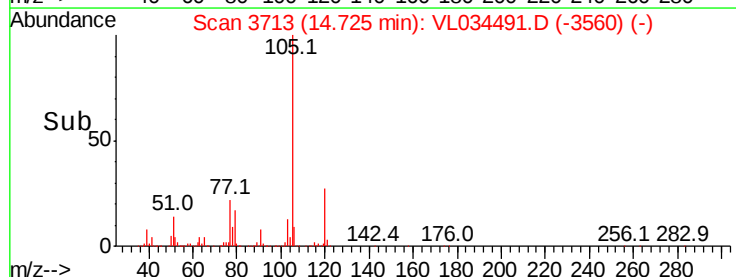
105 100

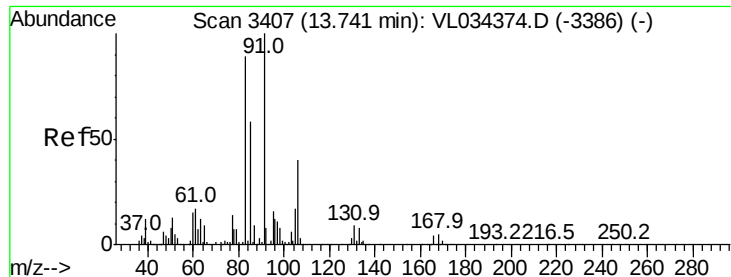
120 25.4 20.2 30.4



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: 8.261 ppbv

RT: 13.74 min Scan# 3406

Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Instrument :

MSVOA_L

ClientSampleId :

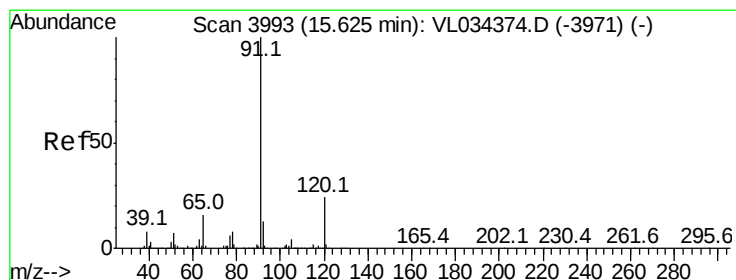
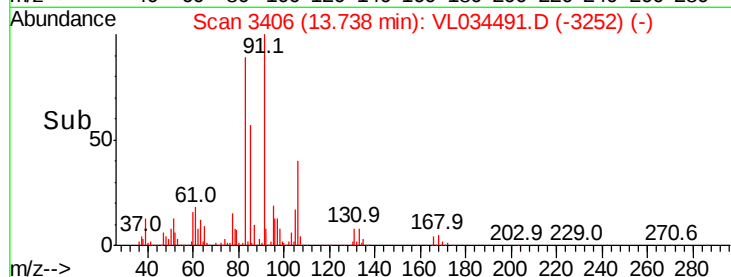
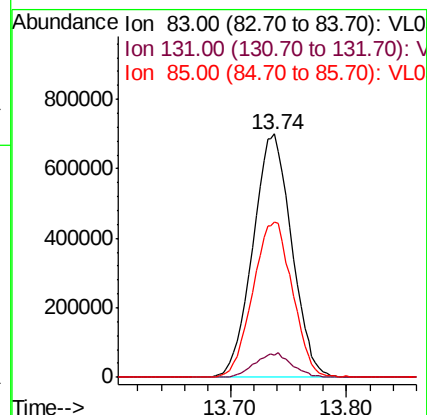
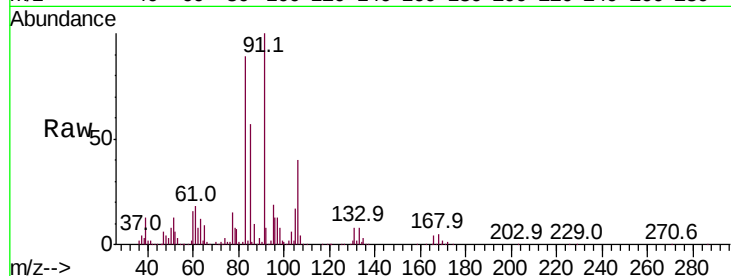
Tot Ion: 83 Resp: 1631733

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.9	14.7
85	65.1	32.6	97.8

83 100

131 9.6 4.9 14.7

85 65.1 32.6 97.8



#64

n-propylbenzene

Concen: 8.448 ppbv

RT: 15.62 min Scan# 3992

Delta R.T. -0.00 min

Lab File: VL034491.D

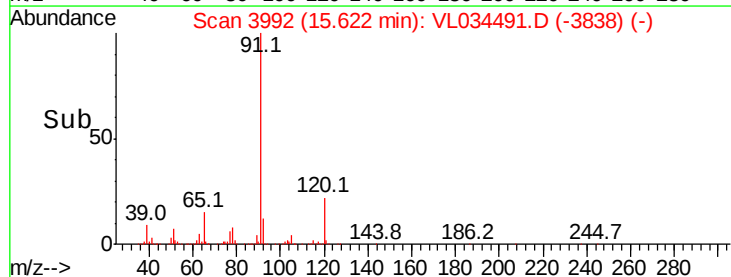
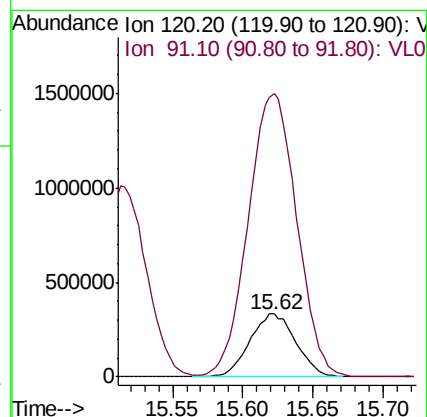
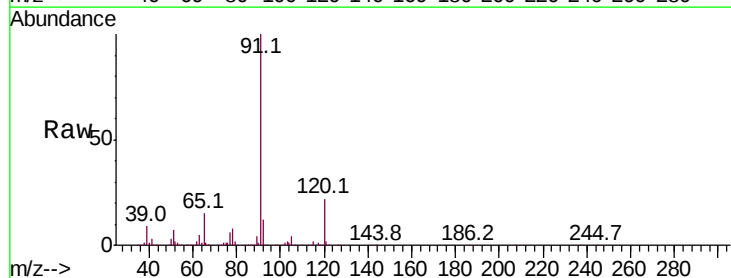
Acq: 10 Dec 2019 11:04

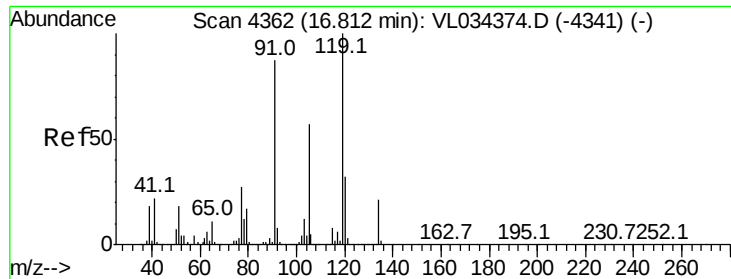
Tgt Ion: 120 Resp: 762431

Ion	Ratio	Lower	Upper
120	100		
91	473.2	370.9	556.3

120 100

91 473.2 370.9 556.3





#65

tert-Butylbenzene

Concen: 8.477 ppbv

RT: 16.81 min Scan# 4360

Delta R.T. -0.01 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Instrument :

MSVOA_L

ClientSampled :

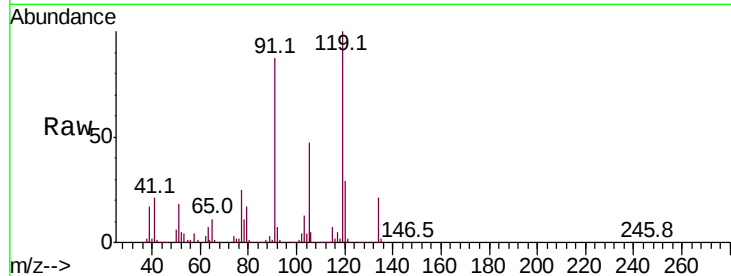
Tot Ion:119 Resp: 2646219

Ion Ratio Lower Upper

119 100

91 91.0 71.6 107.4

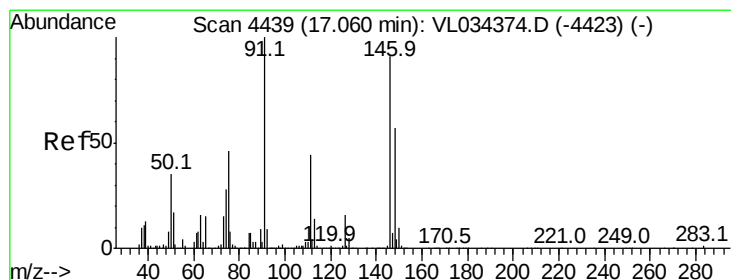
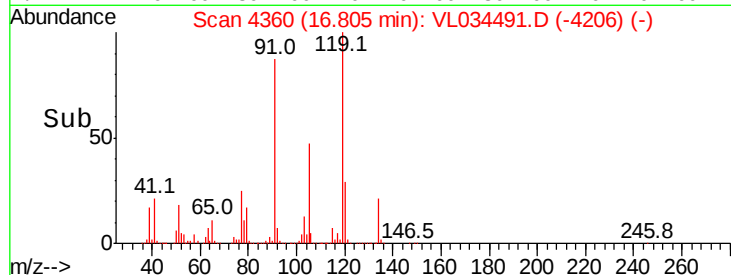
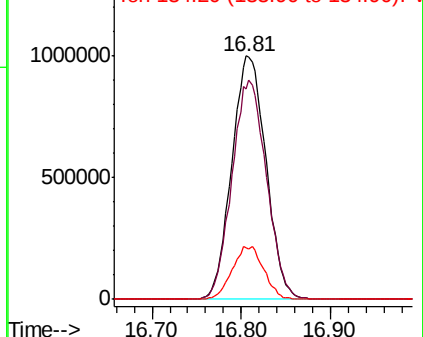
134 20.0 15.9 23.9



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: 10.326 ppbv

RT: 17.06 min Scan# 4438

Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

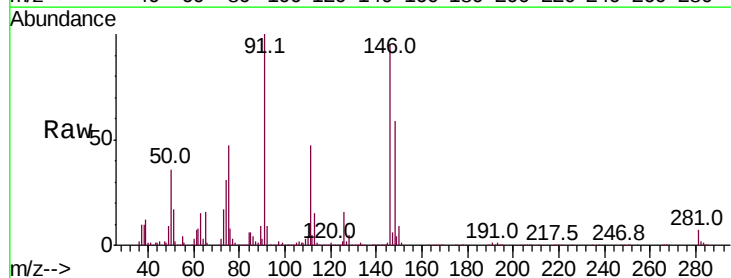
Tgt Ion: 91 Resp: 1240159

Ion Ratio Lower Upper

91 100

126 16.5 12.9 19.3

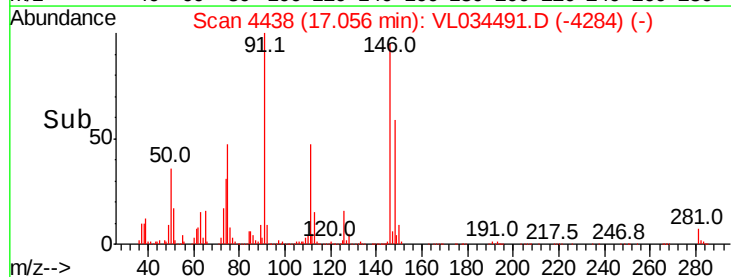
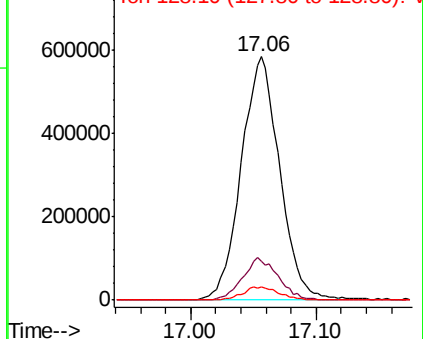
128 5.1 4.3 6.5

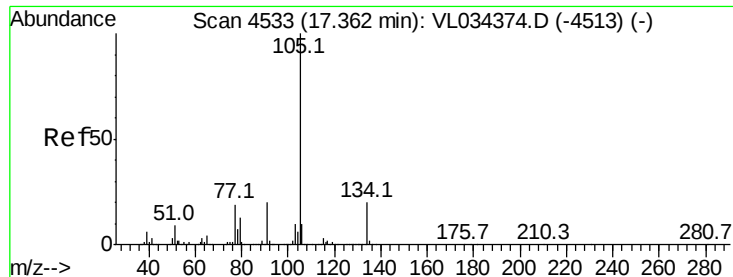


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.530 ppbv

RT: 17.36 min Scan# 4532

Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Instrument :

MSVOA_L

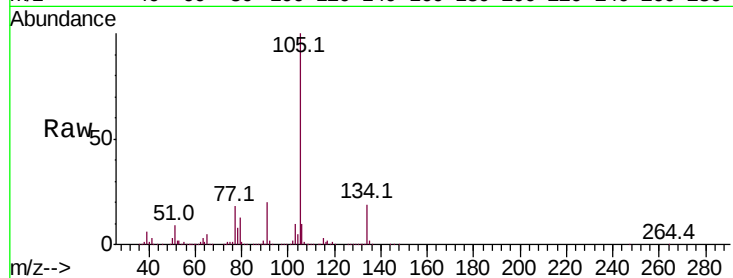
ClientSampled :

Tot Ion:105 Resp: 3725077

Ion Ratio Lower Upper

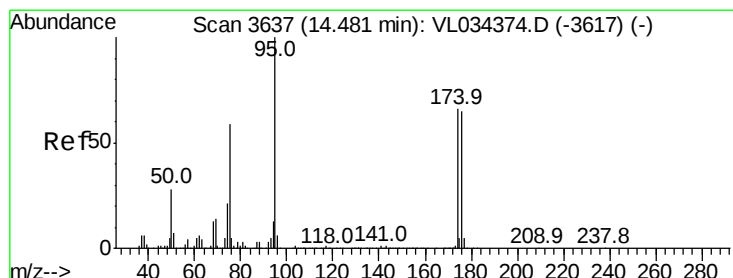
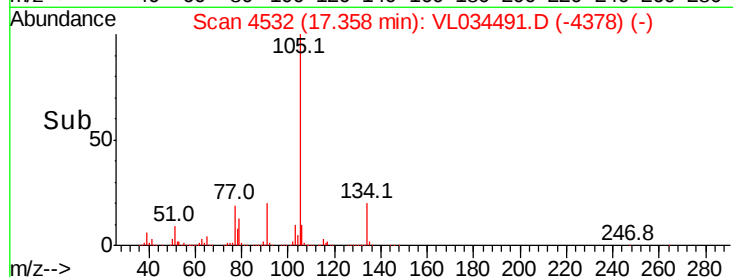
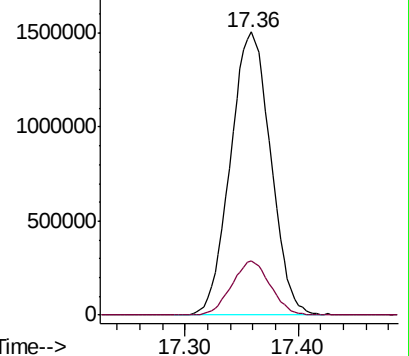
105 100

134 18.4 15.0 22.6



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: 9.665 ppbv

RT: 14.47 min Scan# 3635

Delta R.T. -0.01 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

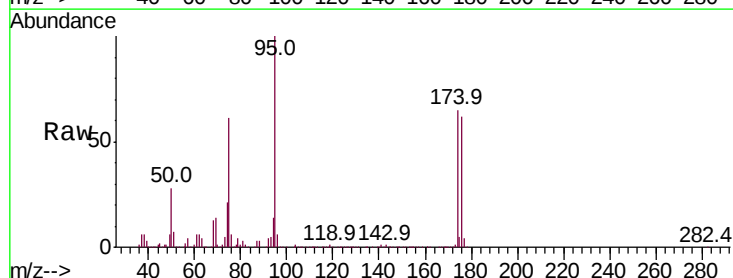
Tgt Ion: 95 Resp: 1610899

Ion Ratio Lower Upper

95 100

174 65.2 52.2 78.2

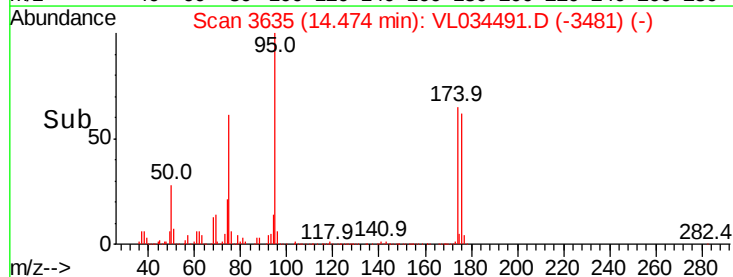
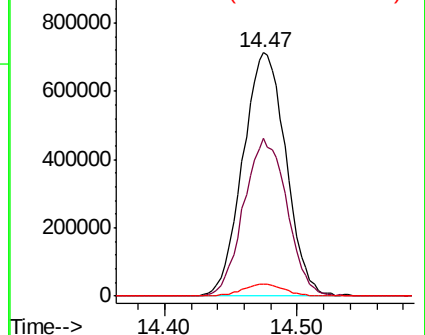
175 4.7 3.8 5.8

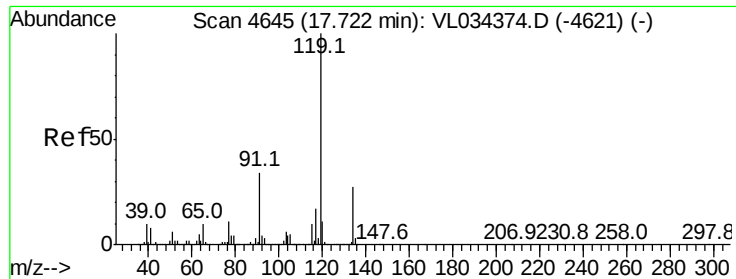


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 8.526 ppbv

RT: 17.72 min Scan# 4643

Delta R.T. -0.01 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Instrument :

MSVOA_L

ClientSampled :

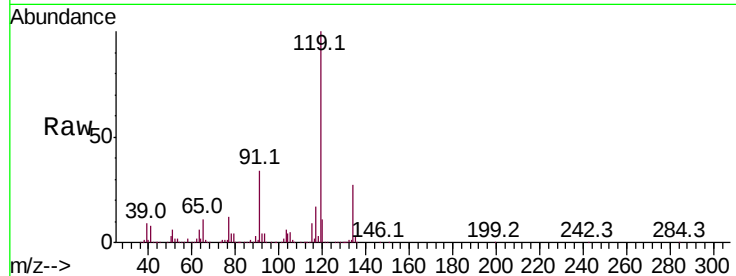
Tot Ion:119 Resp: 3090047

Ion Ratio Lower Upper

119 100

134 25.2 20.6 31.0

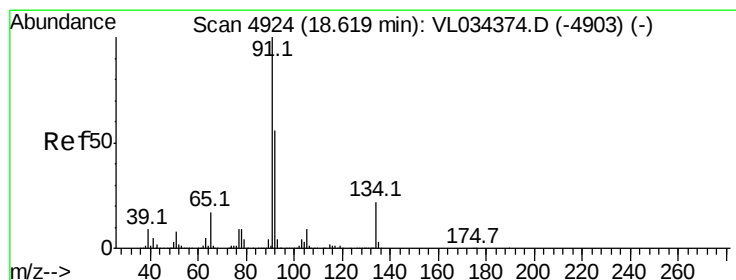
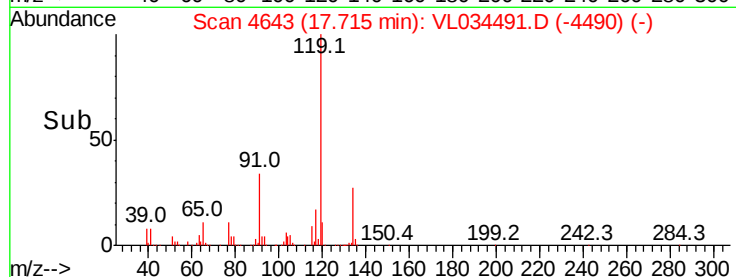
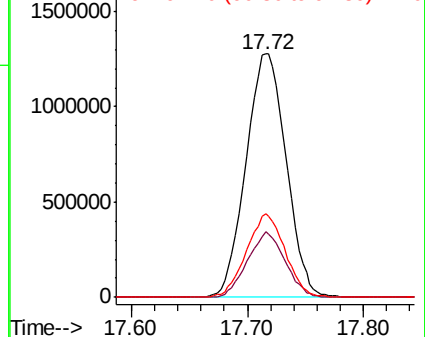
91 33.2 26.3 39.5



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 8.446 ppbv

RT: 18.61 min Scan# 4922

Delta R.T. -0.01 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

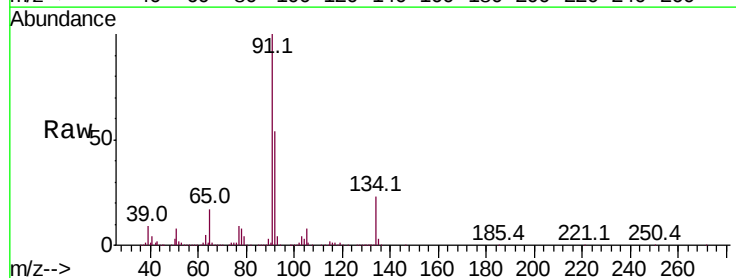
Tgt Ion: 91 Resp: 3293666

Ion Ratio Lower Upper

91 100

92 54.5 43.8 65.6

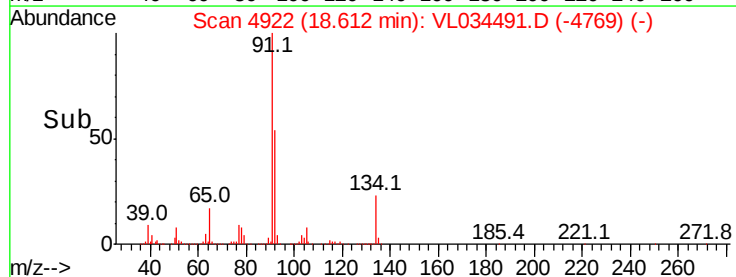
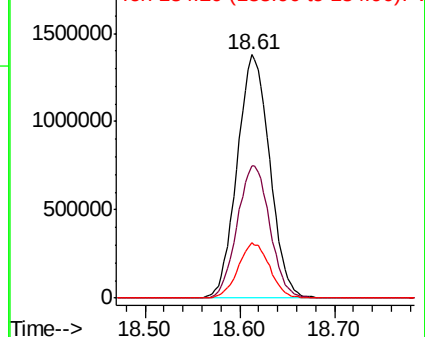
134 21.8 17.9 26.9

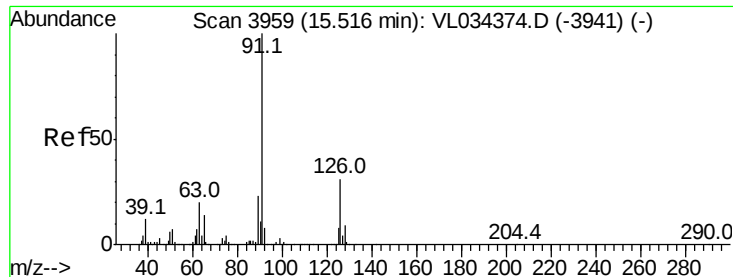


Abundance Ion 91.10 (90.80 to 91.80): V

Ion 92.10 (91.80 to 92.80): V

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 8.434 ppbv

RT: 15.51 min Scan# 3958

Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Instrument :

MSVOA_L

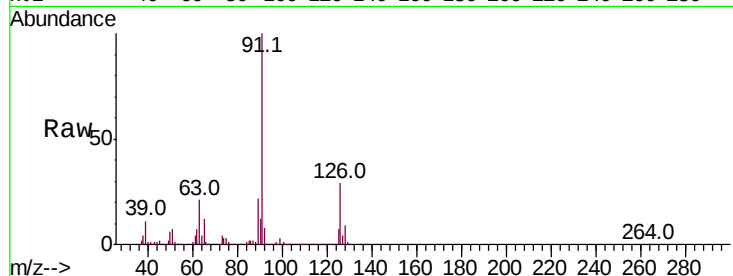
ClientSampleId :

Tot Ion: 91 Resp: 2337011

Ion Ratio Lower Upper

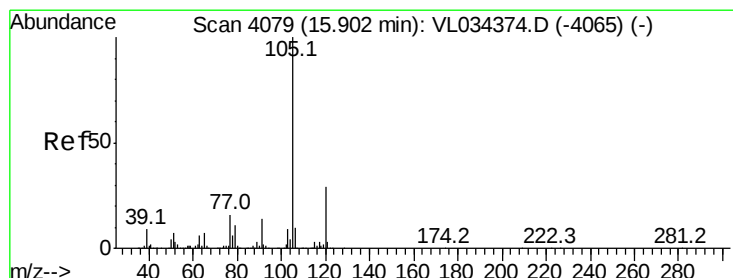
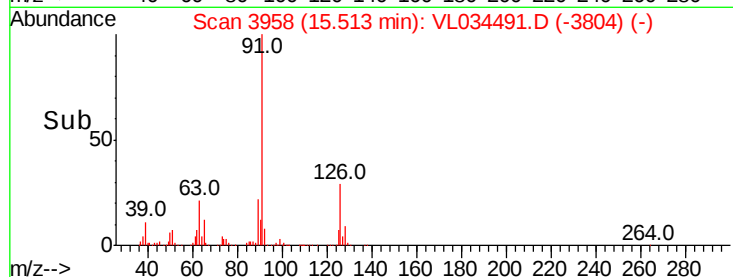
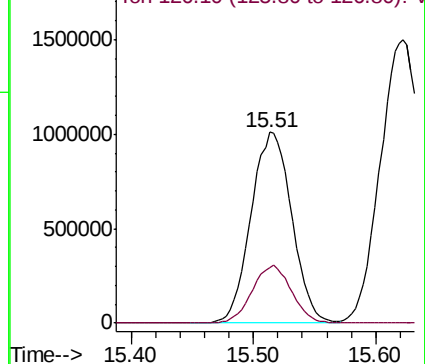
91 100

126 29.2 11.8 47.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 8.394 ppbv

RT: 15.90 min Scan# 4078

Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Tgt Ion:105 Resp: 2548717

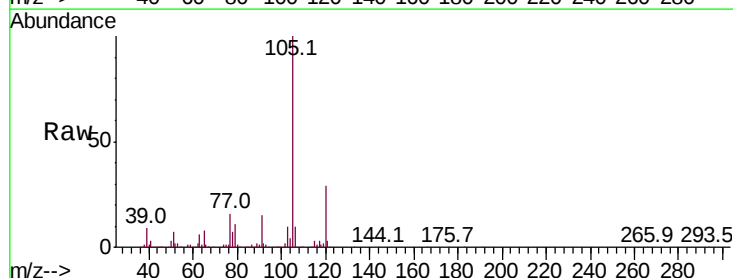
Ion Ratio Lower Upper

105 100

120 28.7 23.5 35.3

91 14.6 11.4 17.0

77 16.3 12.6 19.0

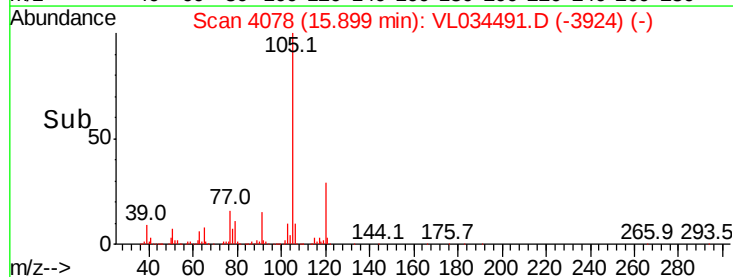
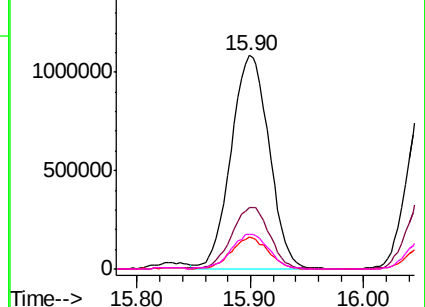


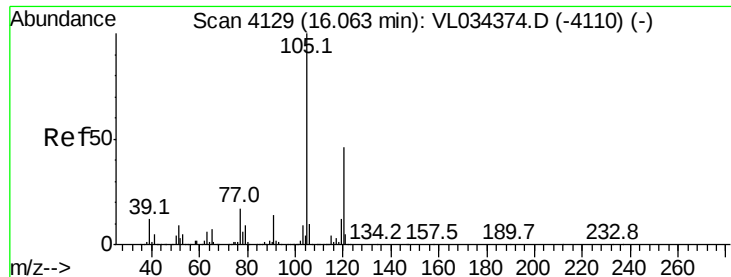
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 8.255 ppbv

RT: 16.06 min Scan# 4128

Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Instrument :

MSVOA_L

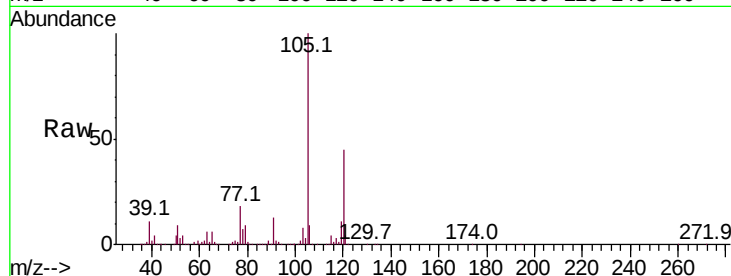
ClientSampleId :

Tot Ion:105 Resp: 2453488

Ion Ratio Lower Upper

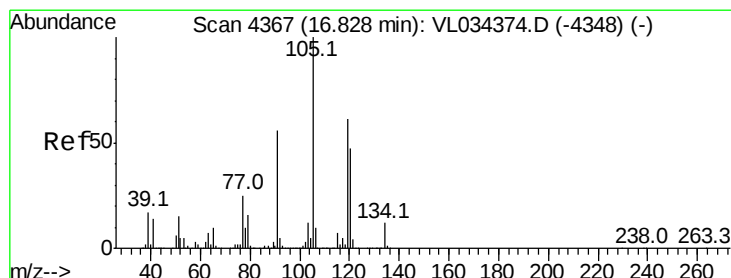
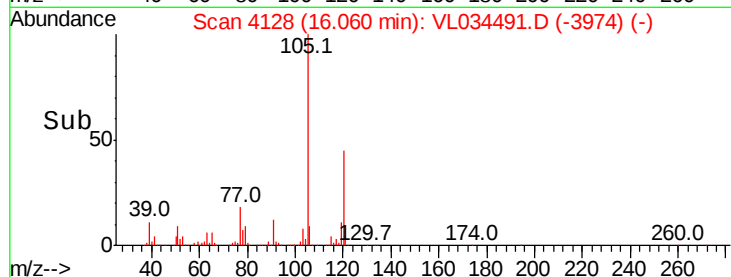
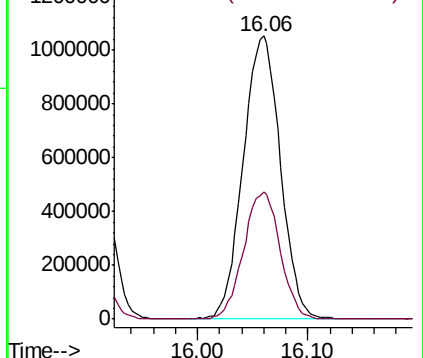
105 100

120 45.1 37.1 55.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.082 ppbv

RT: 16.83 min Scan# 4367

Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Tgt Ion:105 Resp: 2551522

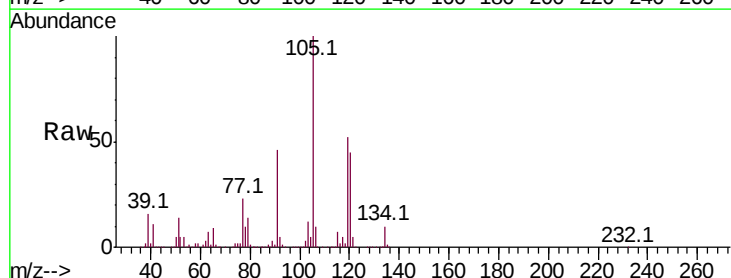
Ion Ratio Lower Upper

105 100

120 45.3 37.4 56.0

91 46.3 46.3 69.5#

77 22.6 20.6 30.8

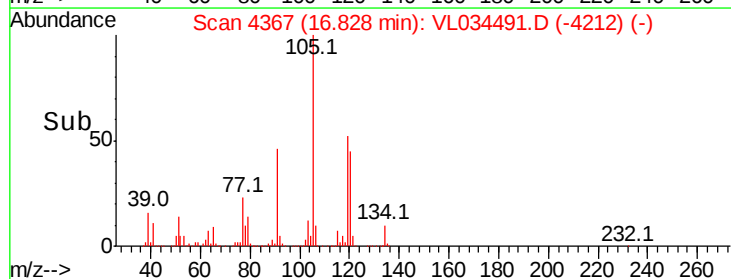
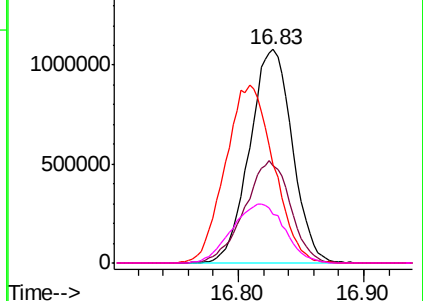


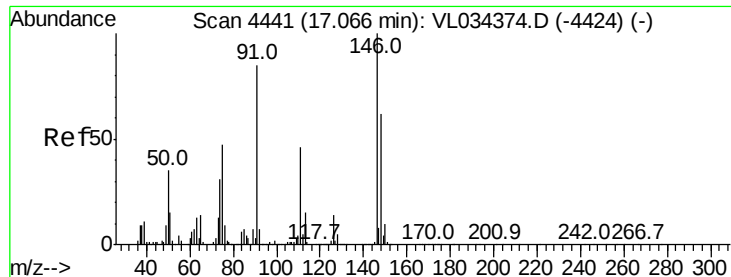
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 7.995 ppbv

RT: 17.06 min Scan# 4440

Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Instrument :

MSVOA_L

ClientSampleId :

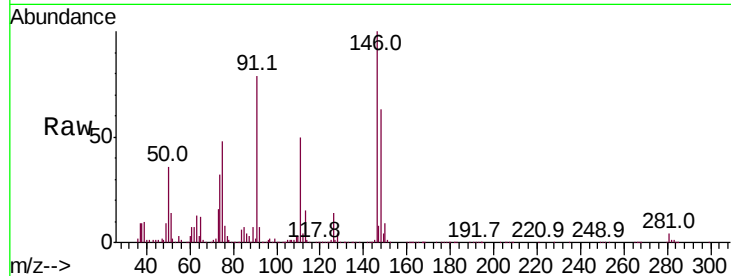
Tot Ion:146 Resp: 1450821

Ion Ratio Lower Upper

146 100

111 49.0 24.4 73.4

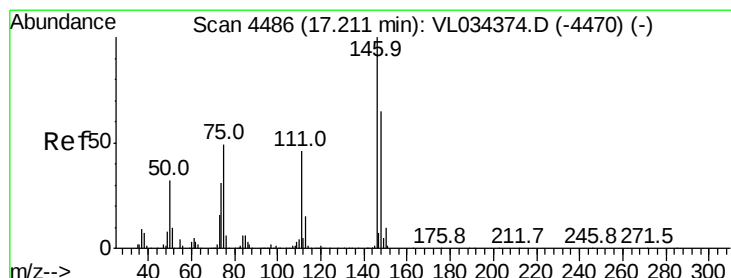
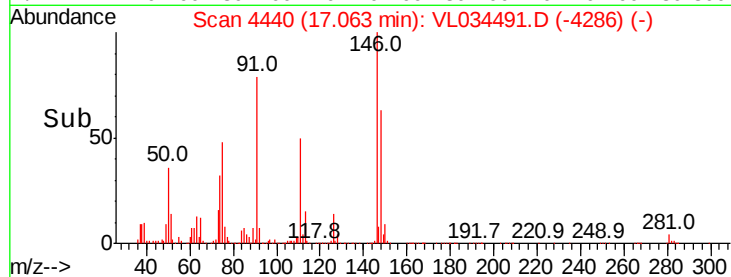
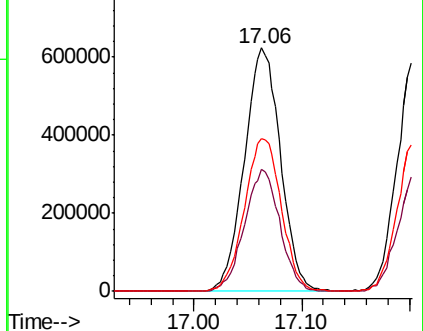
148 64.2 32.4 97.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.066 ppbv

RT: 17.20 min Scan# 4484

Delta R.T. -0.01 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

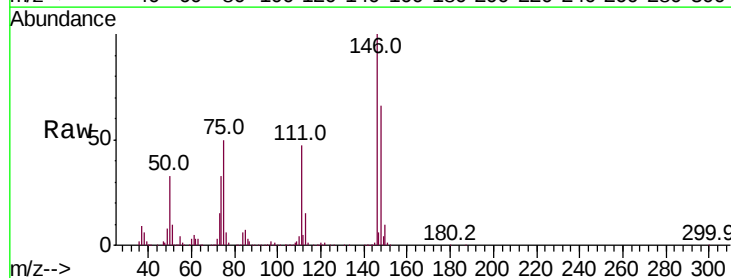
Tgt Ion:146 Resp: 1421268

Ion Ratio Lower Upper

146 100

111 48.4 24.1 72.3

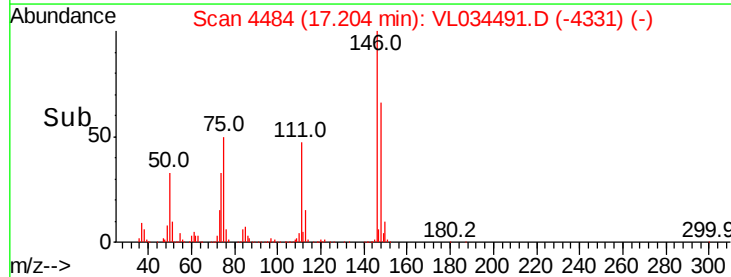
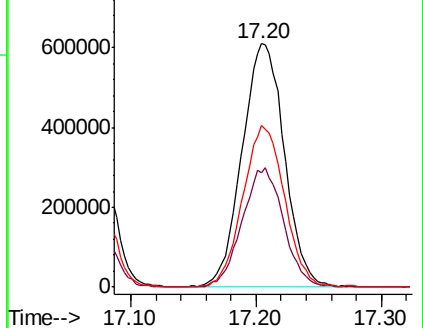
148 66.2 32.9 98.6

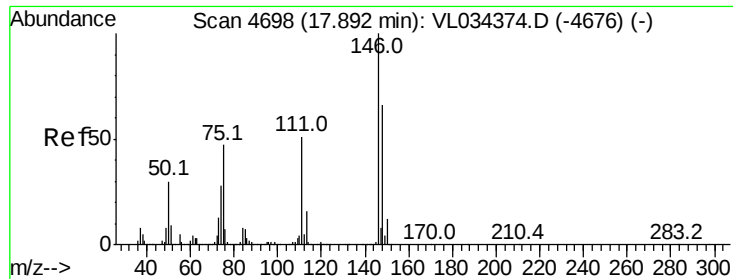


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 8.116 ppbv

RT: 17.89 min Scan# 4696

Delta R.T. -0.01 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Instrument :

MSVOA_L

ClientSampleId :

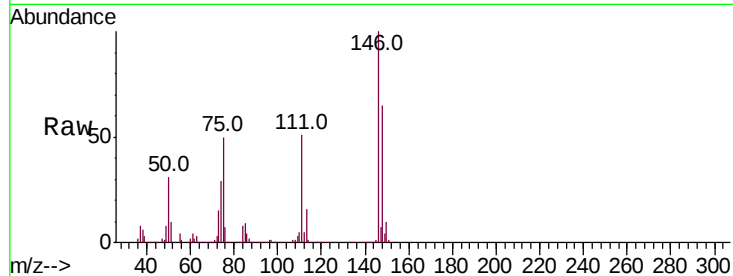
Tot Ion:146 Resp: 1422566

Ion Ratio Lower Upper

146 100

111 50.5 25.0 75.0

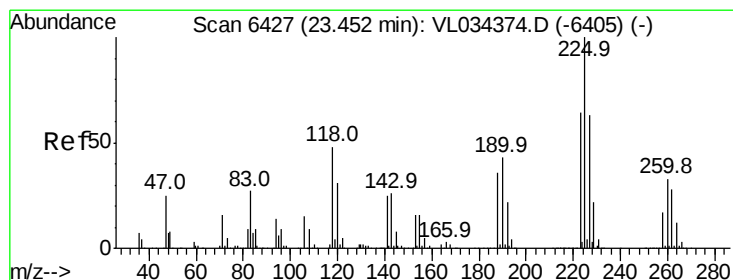
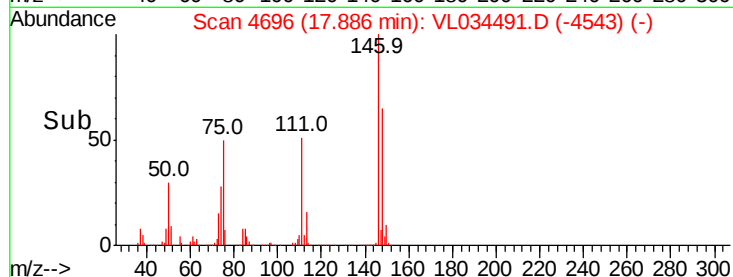
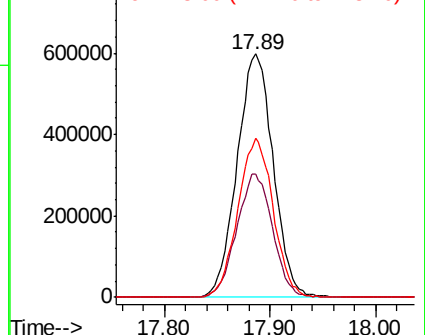
148 64.2 32.7 98.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 7.785 ppbv

RT: 23.45 min Scan# 6426

Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

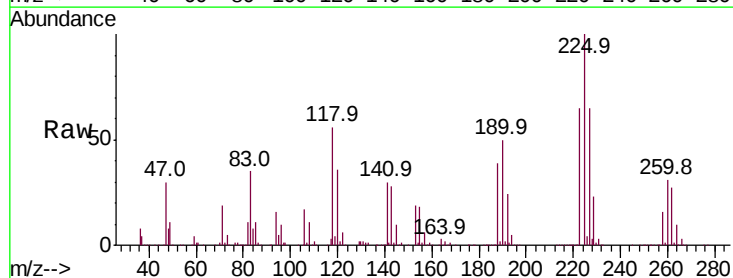
Tgt Ion:225 Resp: 1172381

Ion Ratio Lower Upper

225 100

223 63.3 50.2 75.2

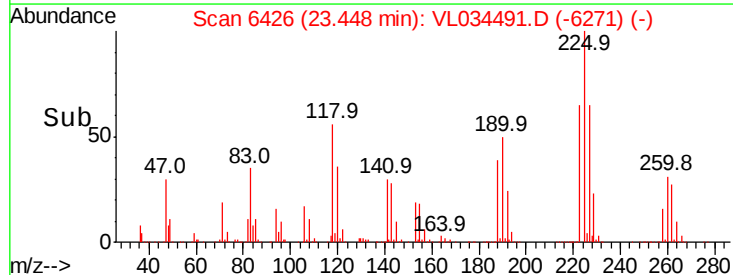
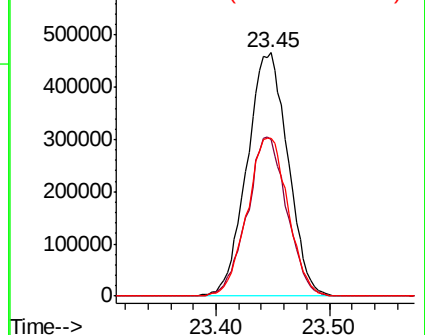
227 64.9 51.5 77.3

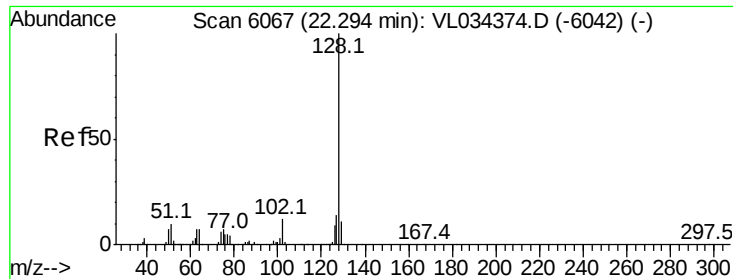


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V

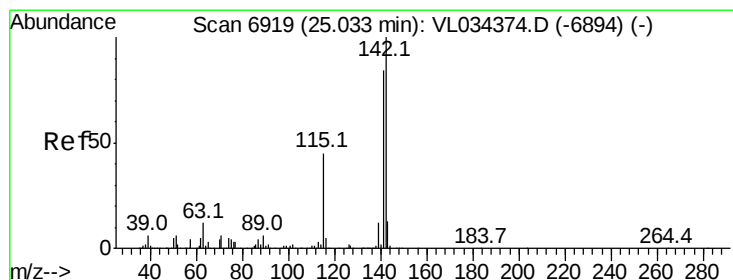
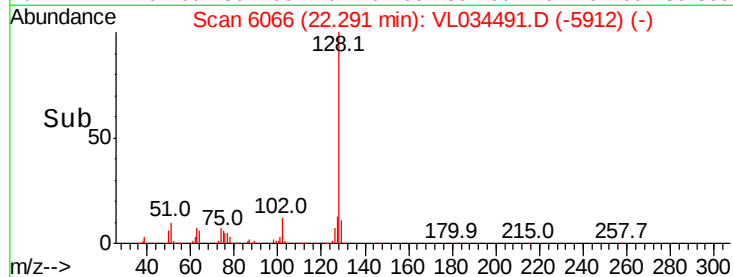
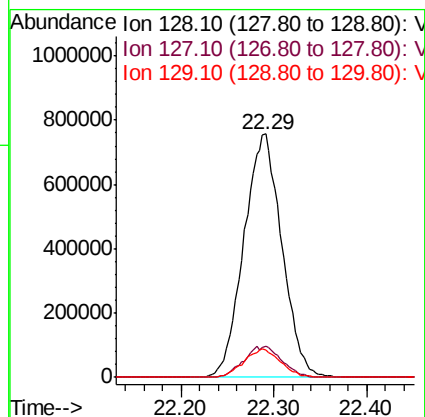
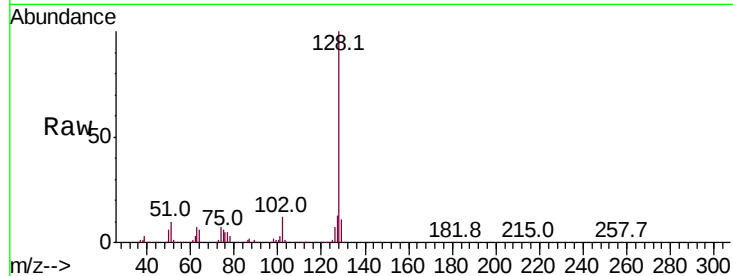




#79
Naphthalene
Concen: 7.853 ppbv
RT: 22.29 min Scan# 6066
Delta R.T. -0.00 min
Lab File: VL034491.D
Acq: 10 Dec 2019 11:04

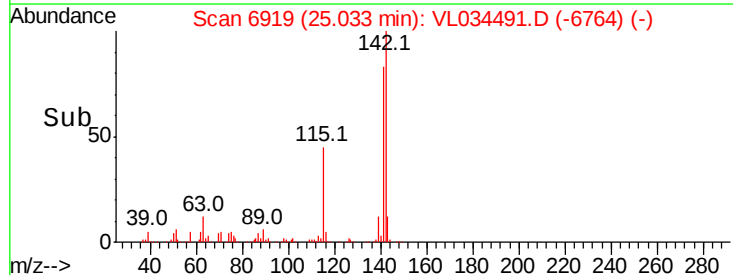
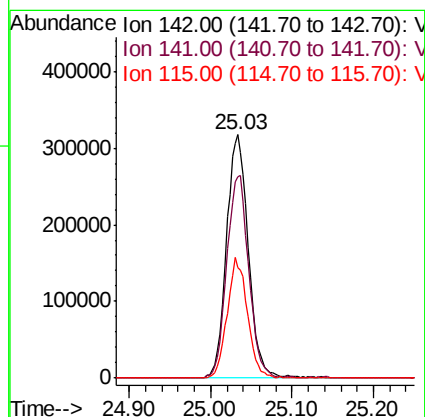
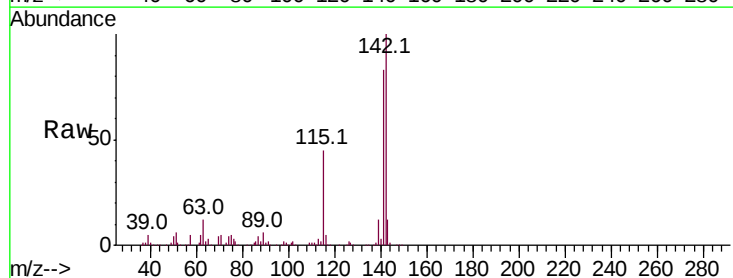
Instrument :
MSVOA_L
ClientSampled :

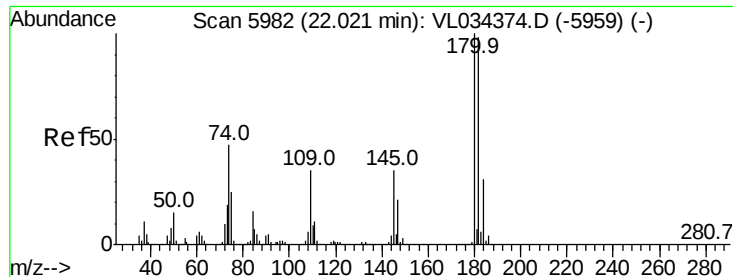
Tot Ion:128 Resp: 2149291
Ion Ratio Lower Upper
128 100
127 12.7 11.0 16.6
129 11.3 8.9 13.3



#80
Naphthalene, 2-methyl-
Concen: 4.860 ppbv
RT: 25.03 min Scan# 6919
Delta R.T. -0.00 min
Lab File: VL034491.D
Acq: 10 Dec 2019 11:04

Tgt Ion:142 Resp: 600597
Ion Ratio Lower Upper
142 100
141 84.6 67.1 100.7
115 46.3 36.6 54.8





#81

1,2,4-Trichlorobenzene

Concen: 7.214 ppbv

RT: 22.02 min Scan# 5981

Delta R.T. -0.00 min

Lab File: VL034491.D

Acq: 10 Dec 2019 11:04

Instrument :

MSVOA_L

ClientSampleId :

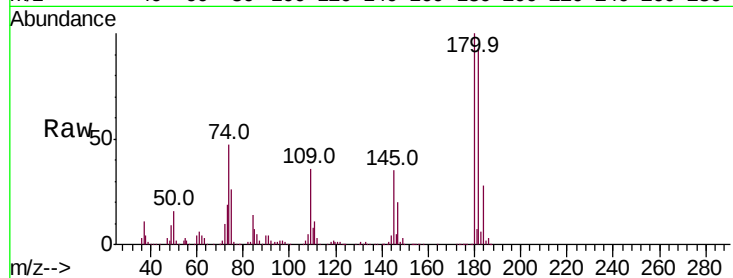
Tot Ion:180 Resp: 1212972

Ion Ratio Lower Upper

180 100

182 96.8 76.8 115.2

184 30.7 24.9 37.3



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

