

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012720\
 Data File : VL034557.D
 Acq On : 27 Jan 2020 10:31
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 28 00:20:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 09 03:01:19 2020
 QLast Update : Thu Jan 09 03:01:19 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1052232	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2175109	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2224056	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1865256	10.05	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	1471083	8.865	ppbv	98
3) Chlorodifluoromethane	2.95	51	1179716	9.410	ppbv	98
4) Chloromethane	3.11	50	720045	9.669	ppbv	97
5) Vinyl Chloride	3.23	62	682135	9.354	ppbv	99
6) Bromomethane	3.45	94	380721	10.488	ppbv	97
7) Chloroethane	3.53	64	259201	10.200	ppbv	93
8) Dichlorotetrafluoroethane	3.16	85	1645306	9.886	ppbv	99
9) Propene	2.98	41	473034	9.787	ppbv	100
10) Heptane	8.15	43	1280914	10.262	ppbv	99
11) Trichlorofluoromethane	3.93	101	1943395	10.120	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1290378	10.565	ppbv	99
13) Ethanol	3.58	45	57554	4.291	ppbv #	55
14) Bromoethene	3.72	108	536316	10.857	ppbv	98
15) Acetone	3.83	43	1383216	9.007	ppbv	99
16) 1,3-Butadiene	3.30	39	610922	10.344	ppbv	98
17) tert-Butyl alcohol	4.28	59	1095470	8.909	ppbv	100
18) 1,1-Dichloroethene	4.28	96	562802	10.578	ppbv	99
19) Isopropyl Alcohol	3.95	45	794476	7.992	ppbv #	98
20) Methylene Chloride	4.33	84	503643	8.335	ppbv	98
21) Allyl Chloride	4.40	41	942787	10.682	ppbv	99
22) trans-1,2-Dichloroethene	4.88	96	595941	11.012	ppbv	96
23) Vinyl Acetate	5.07	43	1790492	10.099	ppbv #	97
24) 1,1-Dichloroethane	5.01	63	1401559	9.840	ppbv	99
25) Ethyl Acetate	5.68	43	2346136	9.783	ppbv	100
26) Hexane	5.69	57	1019995	10.094	ppbv	98
27) Carbon Disulfide	4.54	76	1507555	11.803	ppbv	100
28) Methyl tert-Butyl Ether	5.03	73	1832868	10.860	ppbv	100
29) Chloroform	5.76	83	1730359	9.896	ppbv	98
30) Cyclohexane	7.15	84	803291	10.695	ppbv	97
31) cis-1,2-Dichloroethene	5.56	61	1087976	10.565	ppbv	99
32) 1,1,1-Trichloroethane	6.53	97	1816935	10.011	ppbv	99
34) 2-Butanone	5.24	43	1506081	9.689	ppbv	99
35) Carbon Tetrachloride	7.04	117	1982772	10.052	ppbv	94
36) Benzene	6.91	78	1906289	10.054	ppbv	99
37) 1,2-Dichloroethane	6.32	62	1528734	9.929	ppbv	100
38) Trichloroethene	7.86	130	816392	10.659	ppbv	100
39) 1,2-Dichloropropane	7.64	63	773693	9.924	ppbv	90
40) 1,4-Dioxane	7.85	88	270795	8.582	ppbv #	93
41) Tetrahydrofuran	6.05	42	817842	10.257	ppbv	97
42) Bromodichloromethane	7.82	83	1938050	10.229	ppbv	96
43) Methyl Methacrylate	8.04	69	824361	10.659	ppbv	97

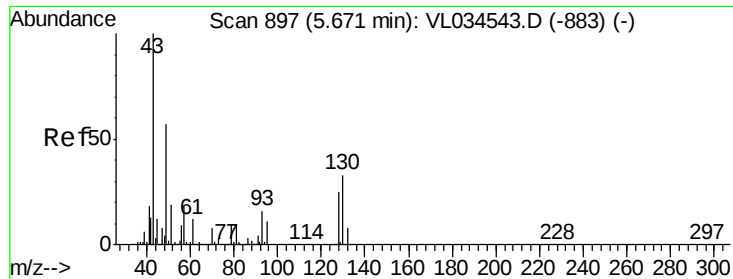
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012720\
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Quant Time: Jan 28 00:20:23 2020
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Jan 09 03:01:19 2020
 QLast Update : Thu Jan 09 03:01:19 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	3390710	9.667	ppbv	99
45) t-1,3-Dichloropropene	9.31	75	1186345	11.908	ppbv	99
46) cis-1,3-Dichloropropene	8.74	75	1293156	11.355	ppbv	98
47) 1,1,2-Trichloroethane	9.51	97	842920	9.808	ppbv	98
48) Dibromochloromethane	10.35	129	1631038	10.947	ppbv	98
49) Bromoform	13.10	173	1482928	10.994	ppbv	99
50) 4-Methyl-2-Pentanone	8.77	43	2249533	9.970	ppbv	99
51) 2-Hexanone	10.17	43	1874401	10.291	ppbv #	99
52) Tetrachloroethene	11.27	164	762464	10.305	ppbv	98
53) Toluene	9.84	91	2244236	10.774	ppbv	100
54) 1,2-Dibromoethane	10.65	107	1305485	10.438	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.18	131	1092312	10.174	ppbv	98
57) Chlorobenzene	12.19	112	1800349	9.812	ppbv	99
58) Ethyl Benzene	12.76	91	3116824	10.391	ppbv	99
59) m/p-Xylene	13.04	91	2362106	9.006	ppbv #	15
60) o-Xylene	13.74	91	2664985	10.126	ppbv	100
61) Styrene	13.58	104	1966817	10.930	ppbv	99
62) Isopropylbenzene	14.72	105	3480901	10.111	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.73	83	1879922	8.904	ppbv	98
64) n-propylbenzene	15.62	120	905220	10.297	ppbv	100
65) tert-Butylbenzene	16.81	119	3168257	10.186	ppbv	100
66) Benzyl Chloride	17.05	91	1658820	12.169	ppbv	99
67) sec-Butylbenzene	17.36	105	4296656	9.837	ppbv	100
69) p-Isopropyltoluene	17.71	119	3620598	10.220	ppbv	100
70) n-Butylbenzene	18.61	91	3733440	9.767	ppbv	100
71) 2-Chlorotoluene	15.51	91	2700019	10.099	ppbv	99
72) 4-Ethyltoluene	15.90	105	3073315	10.435	ppbv	100
73) 1,3,5-Trimethylbenzene	16.05	105	2928465	10.135	ppbv	96
74) 1,2,4-Trimethylbenzene	16.82	105	3050565	9.869	ppbv	94
75) 1,3-Dichlorobenzene	17.06	146	1744942	9.425	ppbv	99
76) 1,4-Dichlorobenzene	17.20	146	1738653	9.754	ppbv	99
77) 1,2-Dichlorobenzene	17.88	146	1668816	9.592	ppbv	99
78) Hexachloro-1,3-Butadiene	23.45	225	1593693	9.650	ppbv	99
79) Naphthalene	22.28	128	2796900	12.013	ppbv	99
80) Naphthalene, 2-methyl-	25.03	142	1436393	22.272	ppbv #	94
81) 1,2,4-Trichlorobenzene	22.01	180	1683523	11.106	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.00 min

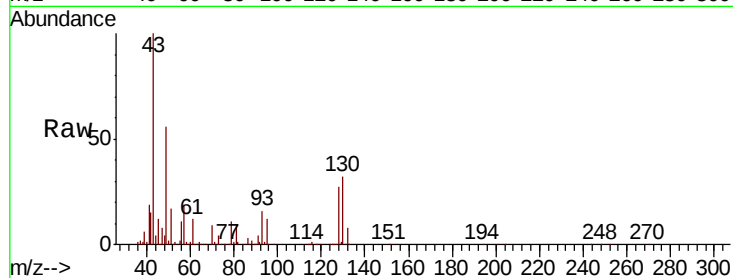
Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 49 Resp: 1052232

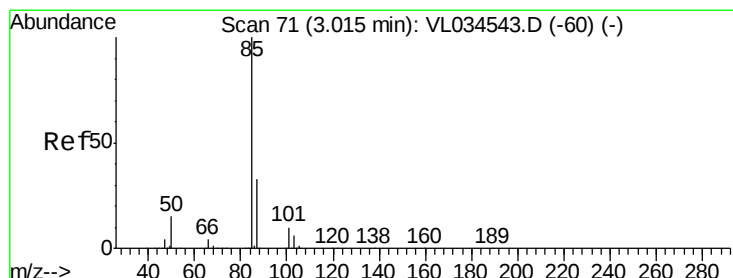
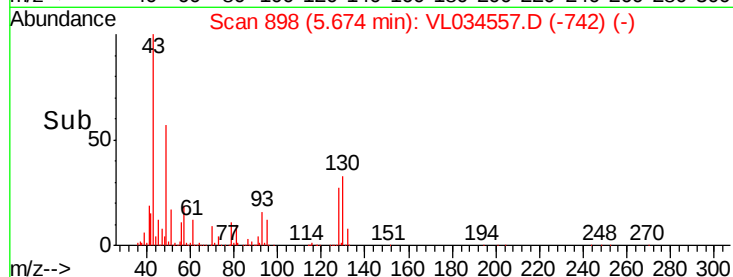
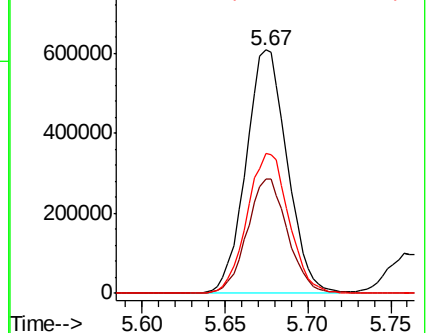
Ion	Ratio	Lower	Upper
49	100		
128	46.1	22.4	67.2
130	58.4	28.3	85.0



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: 8.865 ppbv

RT: 3.02 min Scan# 72

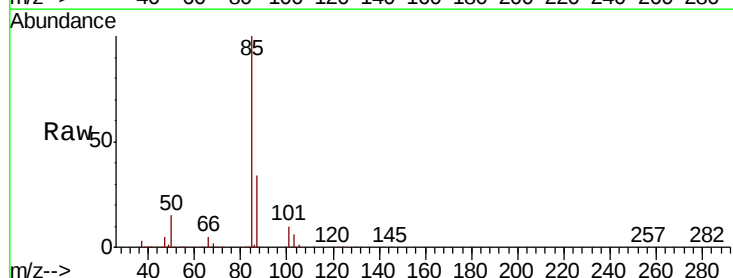
Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

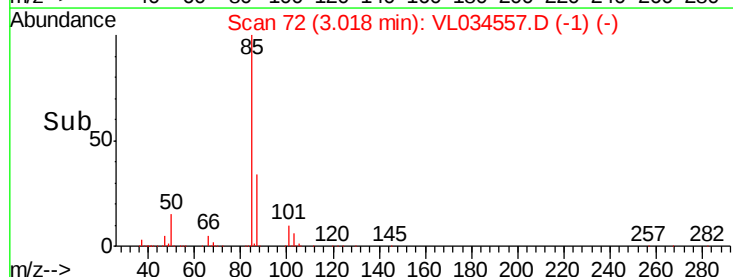
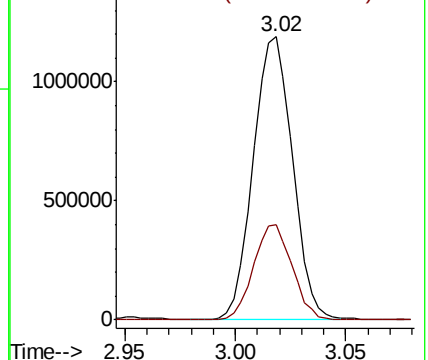
Tgt Ion: 85 Resp: 1471083

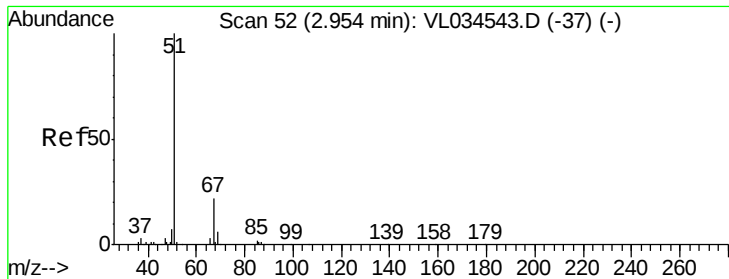
Ion	Ratio	Lower	Upper
85	100		
87	33.6	27.9	41.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

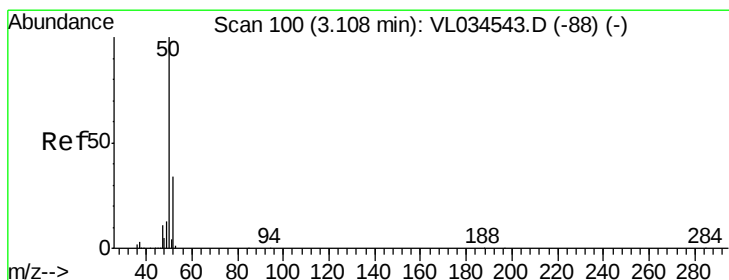
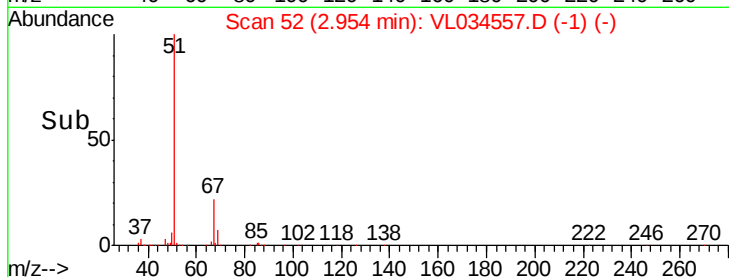
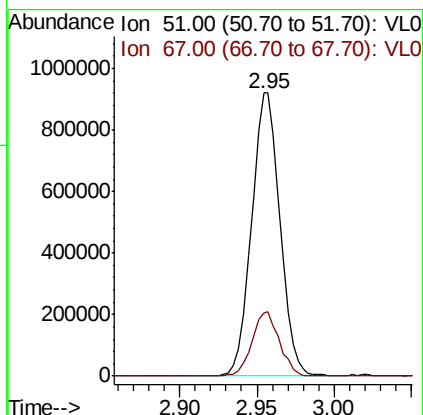
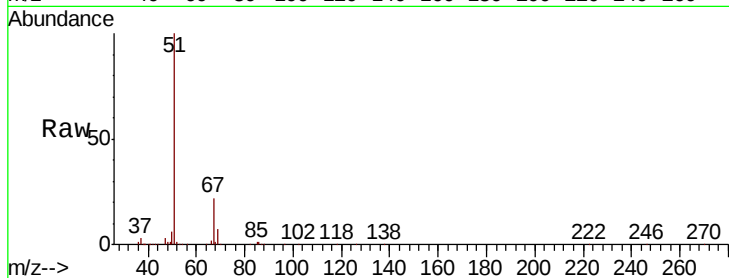




#3
 Chlorodifluoromethane
 Concen: 9.410 ppbv
 RT: 2.95 min Scan# 52
 Delta R.T. 0.00 min
 Lab File: VL034557.D
 Acq: 27 Jan 2020 10:31

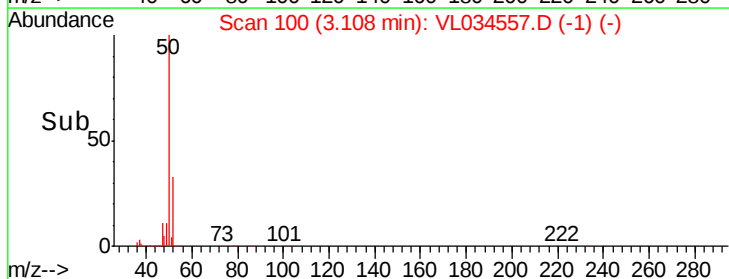
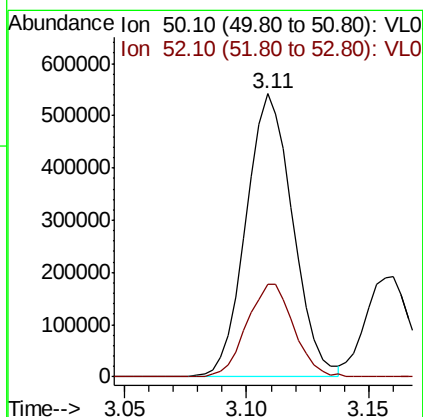
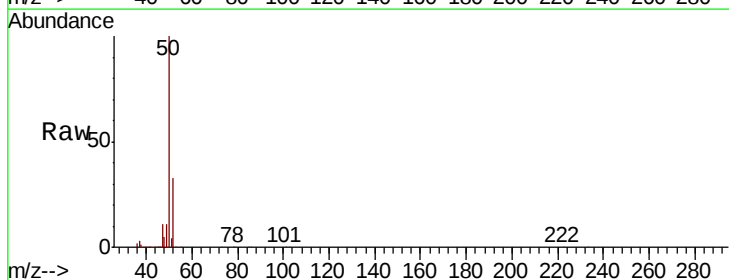
Instrument :
 MSVOA_L
 ClientSampleId :

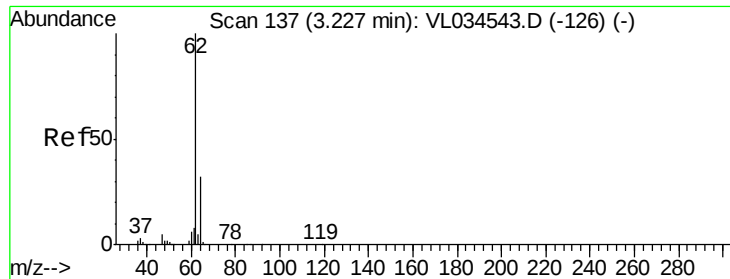
Tot Ion: 51 Resp: 1179716
 Ion Ratio Lower Upper
 51 100
 67 22.1 16.8 25.2



#4
 Chloromethane
 Concen: 9.669 ppbv
 RT: 3.11 min Scan# 100
 Delta R.T. 0.00 min
 Lab File: VL034557.D
 Acq: 27 Jan 2020 10:31

Tgt Ion: 50 Resp: 720045
 Ion Ratio Lower Upper
 50 100
 52 32.6 27.6 41.4





#5

Vinyl Chloride

Concen: 9.354 ppbv

RT: 3.23 min Scan# 137

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

Instrument :

MSVOA_L

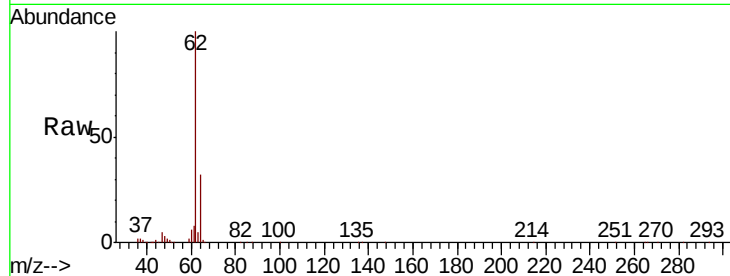
ClientSampleId :

Tot Ion: 62 Resp: 682135

Ion Ratio Lower Upper

62 100

64 31.9 24.9 37.3



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.23

600000

500000

400000

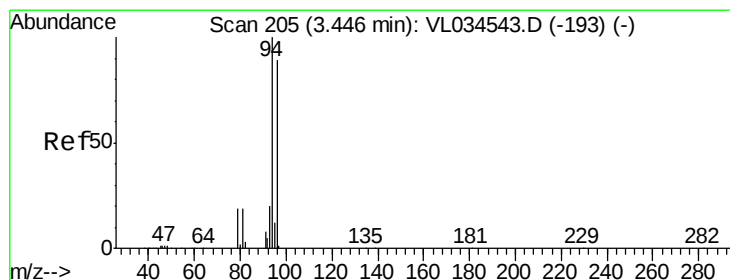
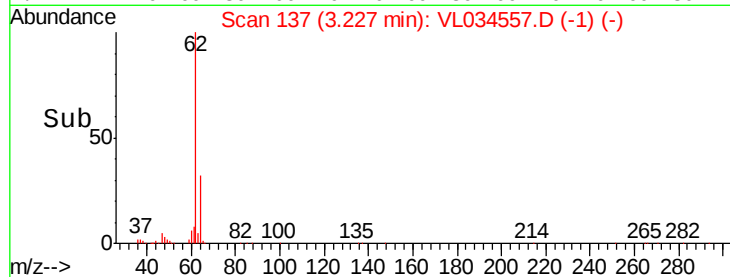
300000

200000

100000

0

Time--> 3.15 3.20 3.25



#6

Bromomethane

Concen: 10.488 ppbv

RT: 3.45 min Scan# 206

Delta R.T. 0.00 min

Lab File: VL034557.D

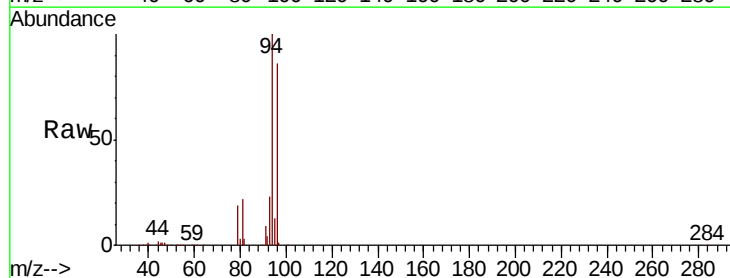
Acq: 27 Jan 2020 10:31

Tgt Ion: 94 Resp: 380721

Ion Ratio Lower Upper

94 100

96 86.4 71.2 106.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.45

300000

250000

200000

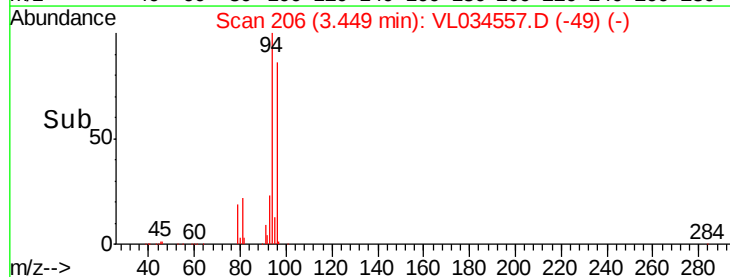
150000

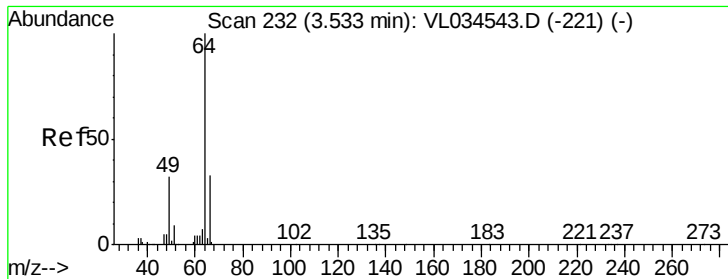
100000

50000

0

Time--> 3.40 3.45 3.50





#7

Chloroethane

Concen: 10.200 ppbv

RT: 3.53 min Scan# 232

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

Instrument :

MSVOA_L

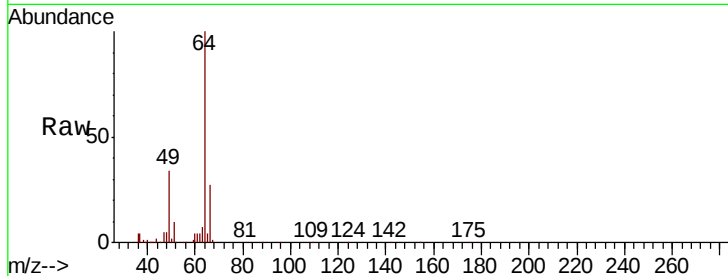
ClientSampleId :

Tot Ion: 64 Resp: 259201

Ion Ratio Lower Upper

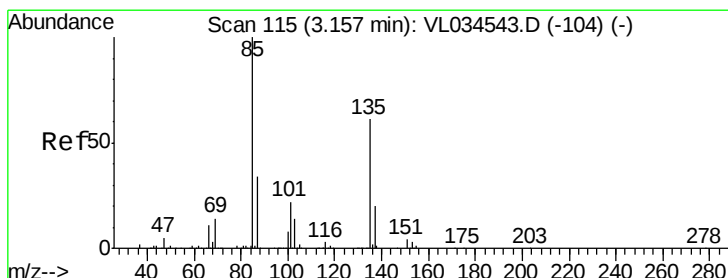
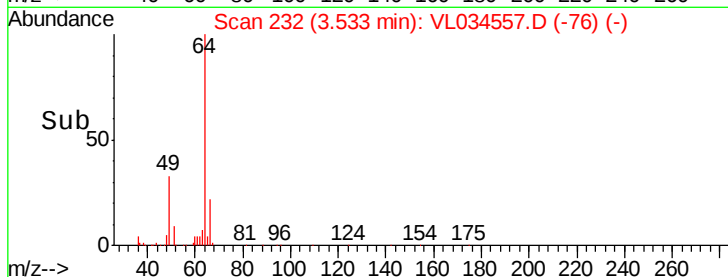
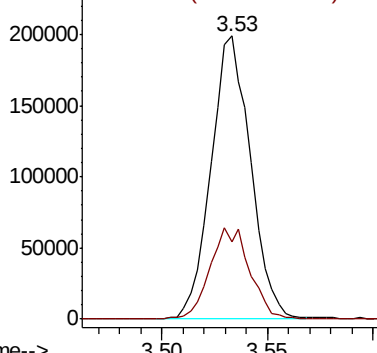
64 100

66 27.4 25.0 37.4



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.886 ppbv

RT: 3.16 min Scan# 116

Delta R.T. 0.00 min

Lab File: VL034557.D

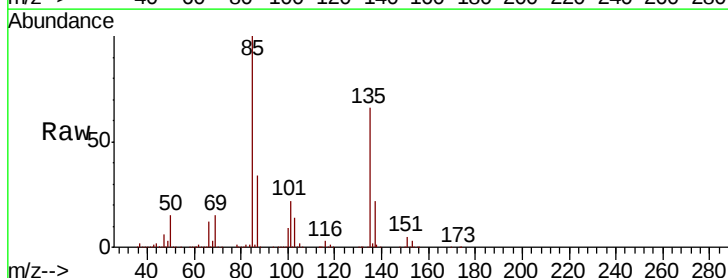
Acq: 27 Jan 2020 10:31

Tgt Ion: 85 Resp: 1645306

Ion Ratio Lower Upper

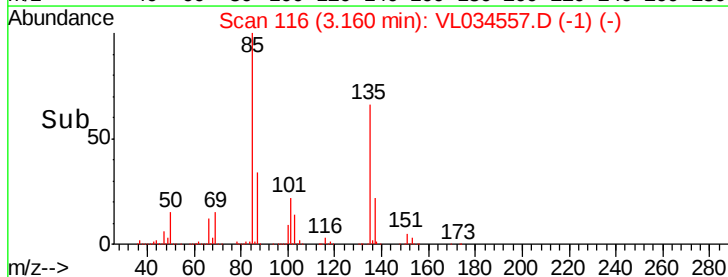
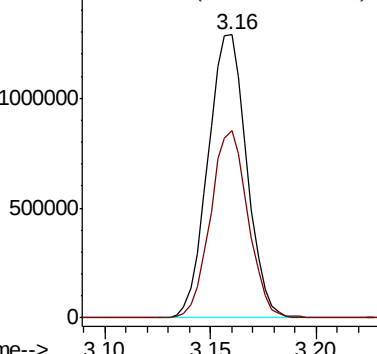
85 100

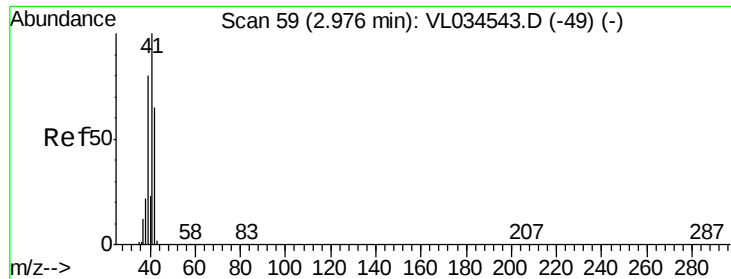
135 64.1 51.8 77.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

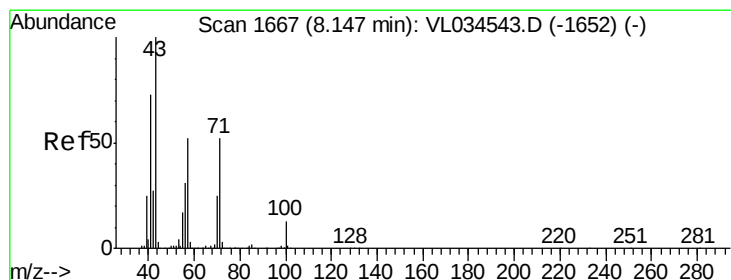
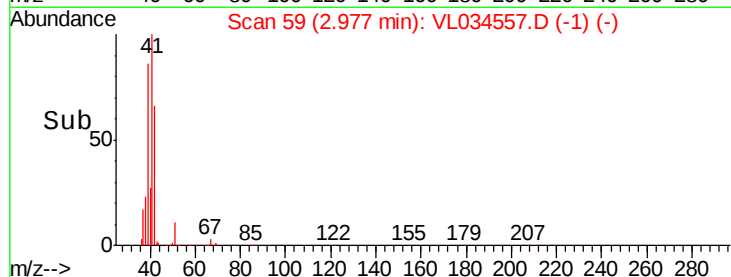
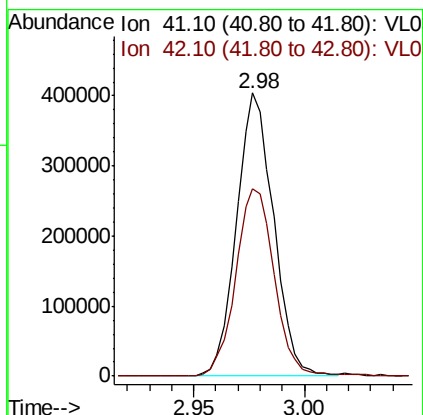
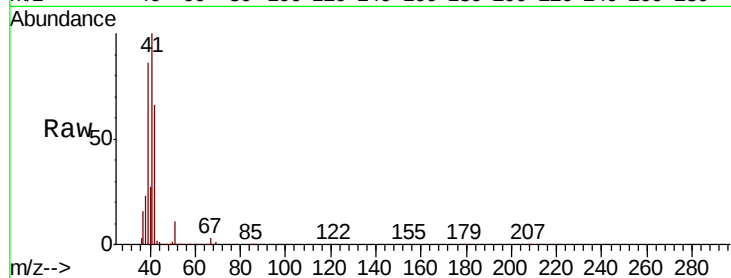




#9
 Propene
 Concen: 9.787 ppbv
 RT: 2.98 min Scan# 59
 Delta R.T. 0.00 min
 Lab File: VL034557.D
 Acq: 27 Jan 2020 10:31

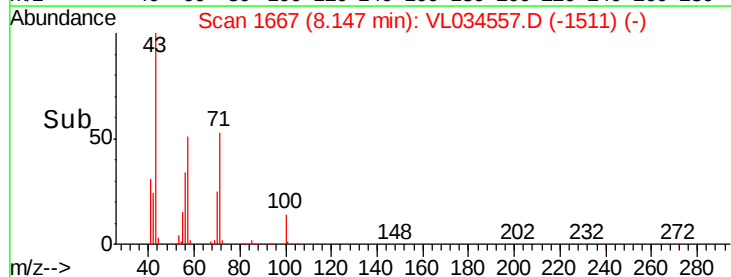
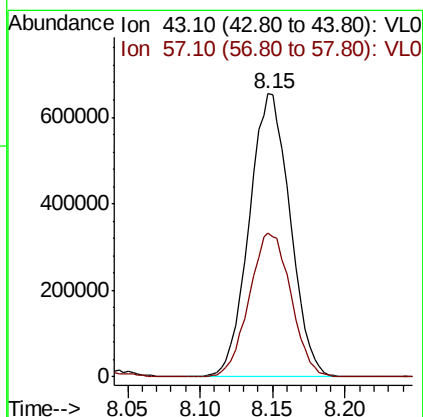
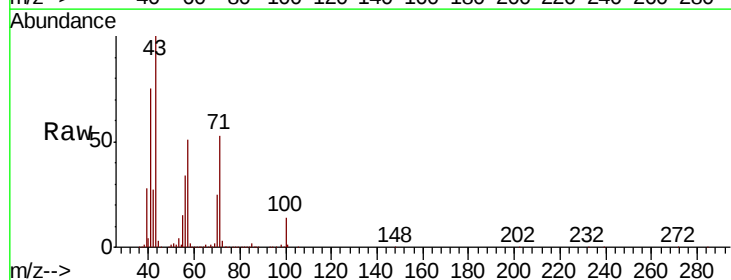
Instrument :
 MSVOA_L
 ClientSampleId :

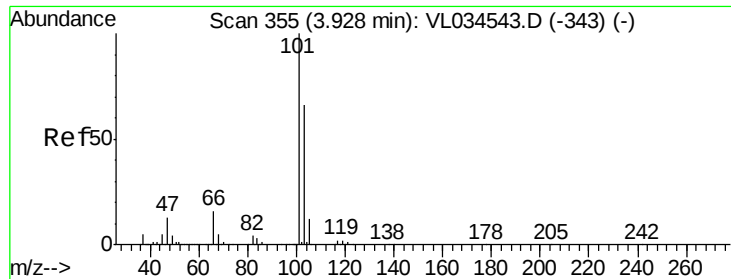
Tot Ion: 41 Resp: 473034
 Ion Ratio Lower Upper
 41 100
 42 69.5 55.8 83.6



#10
 Heptane
 Concen: 10.262 ppbv
 RT: 8.15 min Scan# 1667
 Delta R.T. 0.00 min
 Lab File: VL034557.D
 Acq: 27 Jan 2020 10:31

Tgt Ion: 43 Resp: 1280914
 Ion Ratio Lower Upper
 43 100
 57 52.2 41.0 61.6





#11

Trichlorofluoromethane

Concen: 10.120 ppbv

RT: 3.93 min Scan# 356

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

Instrument :

MSVOA_L

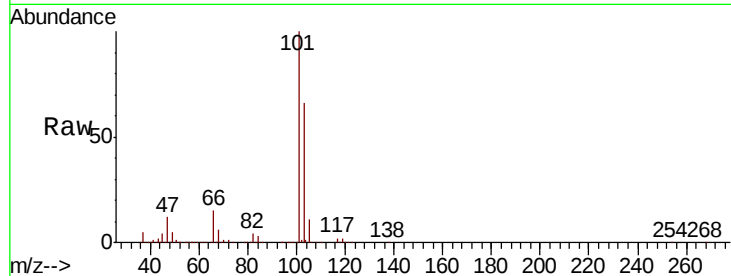
ClientSampled :

Tot Ion:101 Resp: 1943395

Ion Ratio Lower Upper

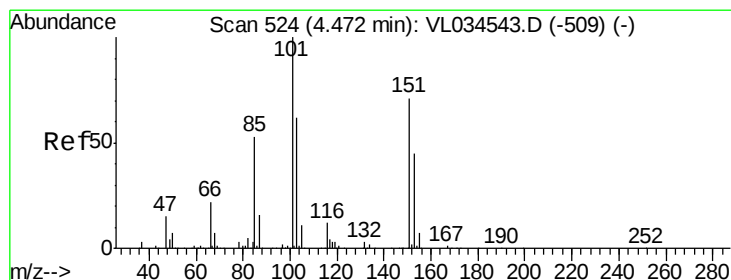
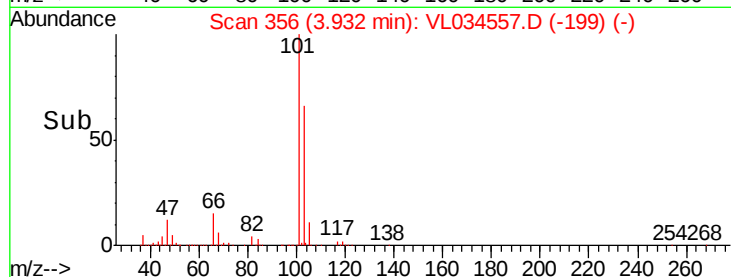
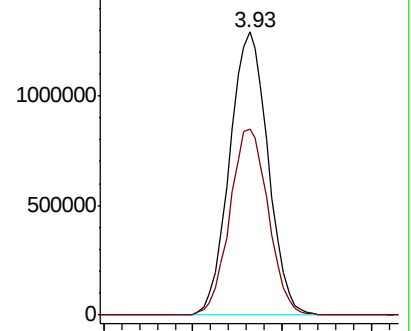
101 100

103 65.9 52.1 78.1



Abundance Ion 101.00 (100.70 to 101.70): V

1500000 Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 10.565 ppbv

RT: 4.47 min Scan# 525

Delta R.T. 0.00 min

Lab File: VL034557.D

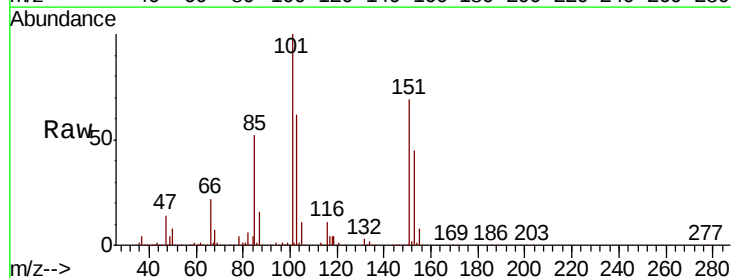
Acq: 27 Jan 2020 10:31

Tgt Ion:101 Resp: 1290378

Ion Ratio Lower Upper

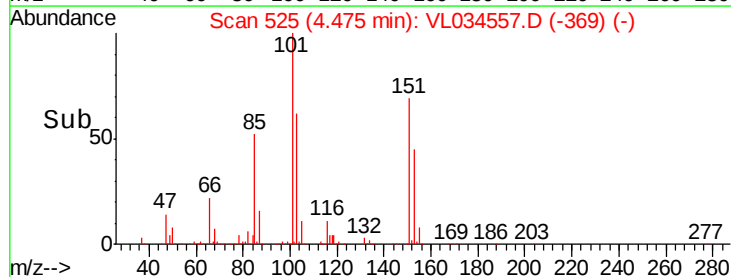
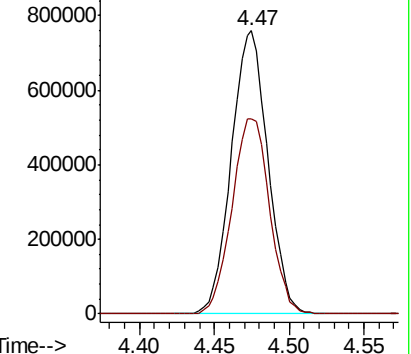
101 100

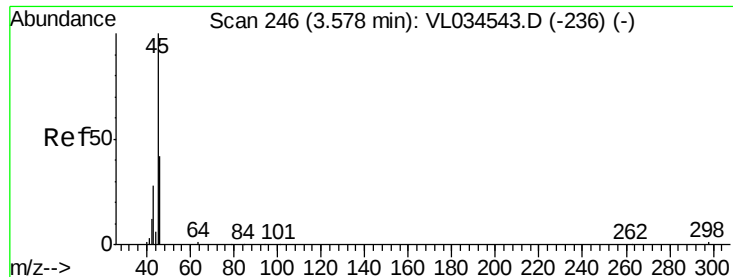
151 71.3 57.8 86.6



Abundance Ion 101.00 (100.70 to 101.70): V

800000 Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 4.291 ppbv

RT: 3.58 min Scan# 246

Delta R.T. -0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

Instrument :

MSVOA_L

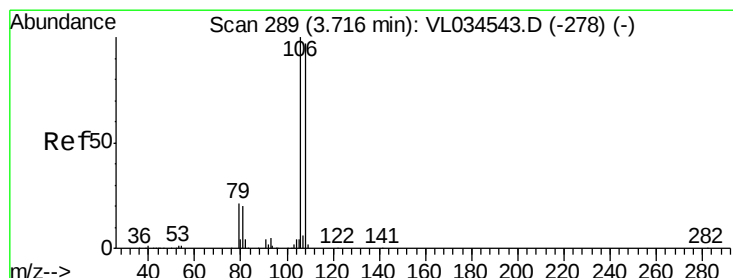
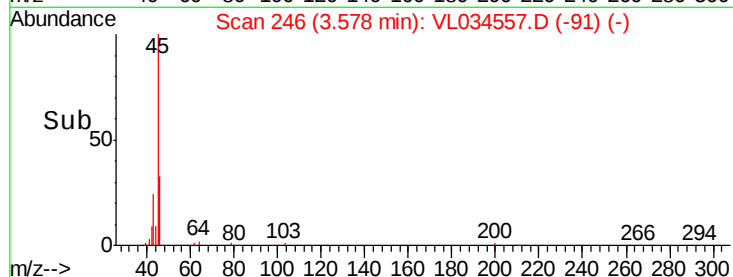
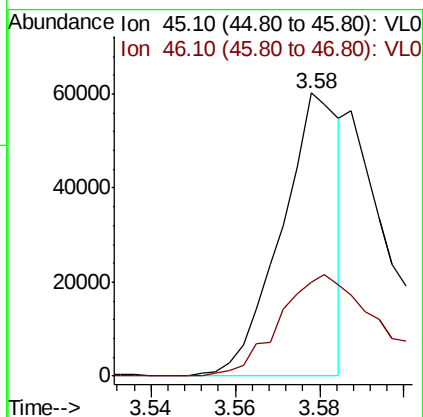
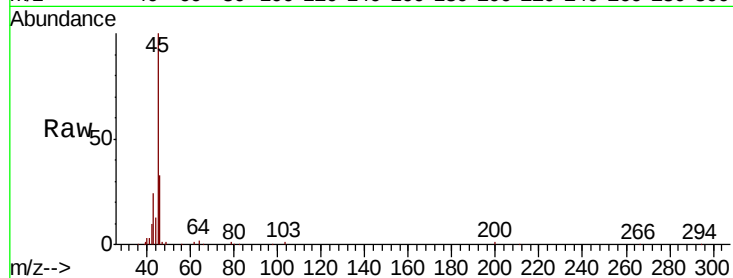
ClientSampleId :

Tot Ion: 45 Resp: 57554

Ion Ratio Lower Upper

45 100

46 64.2 14.9 59.7#



#14

Bromoethene

Concen: 10.857 ppbv

RT: 3.72 min Scan# 289

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

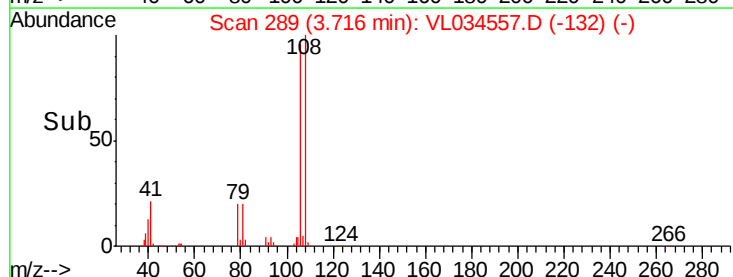
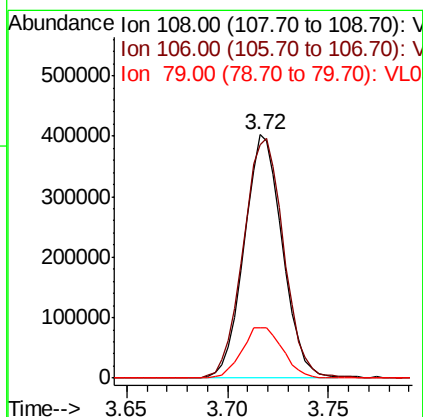
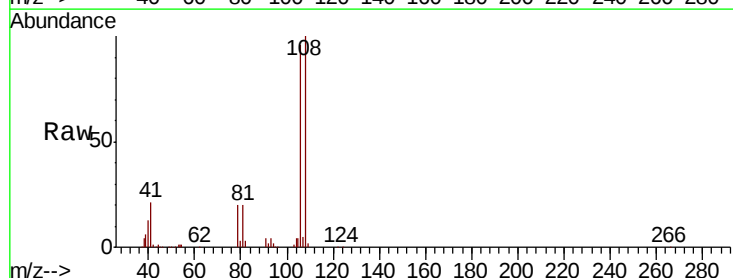
Tgt Ion: 108 Resp: 536316

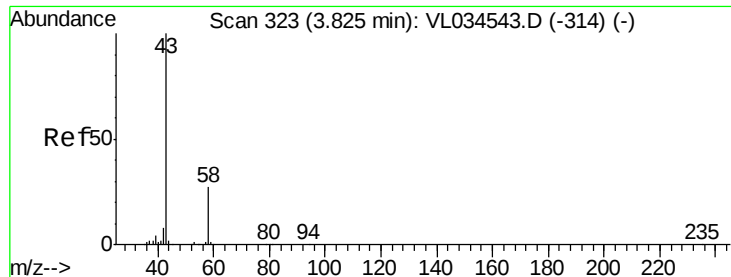
Ion Ratio Lower Upper

108 100

106 104.5 85.2 127.8

79 22.6 17.4 26.2





#15

Acetone

Concen: 9.007 ppbv

RT: 3.83 min Scan# 324

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

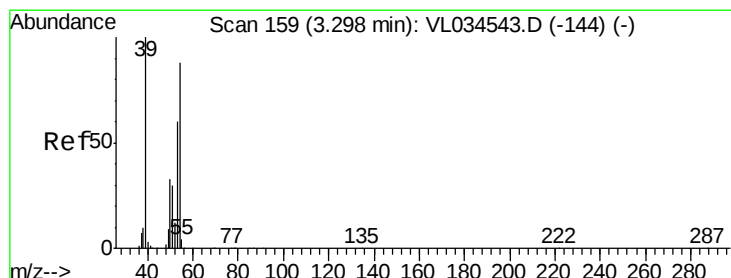
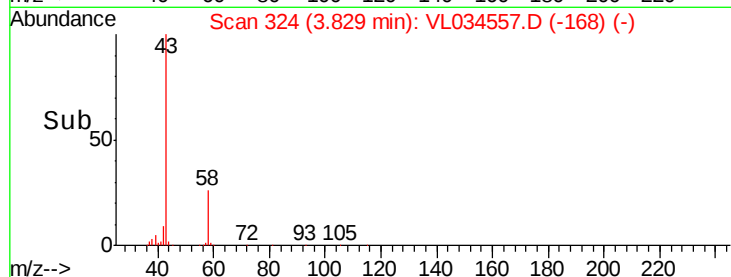
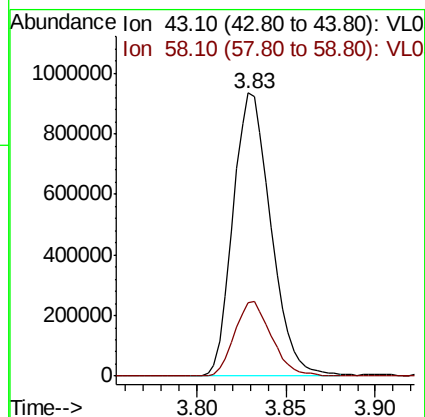
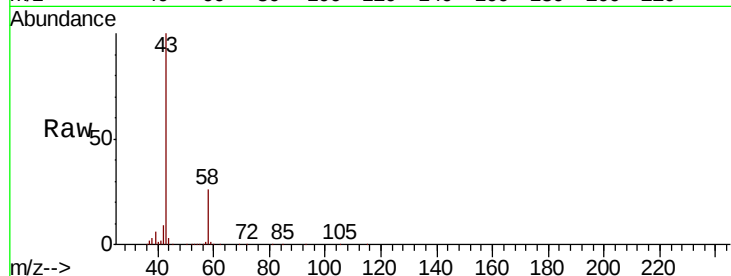
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 1383216

Ion Ratio Lower Upper

43 100

58 25.8 20.4 30.6



#16

1,3-Butadiene

Concen: 10.344 ppbv

RT: 3.30 min Scan# 159

Delta R.T. 0.00 min

Lab File: VL034557.D

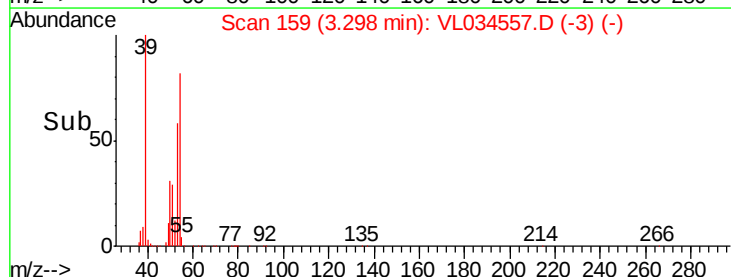
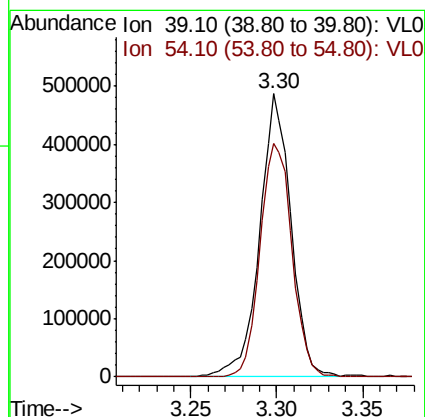
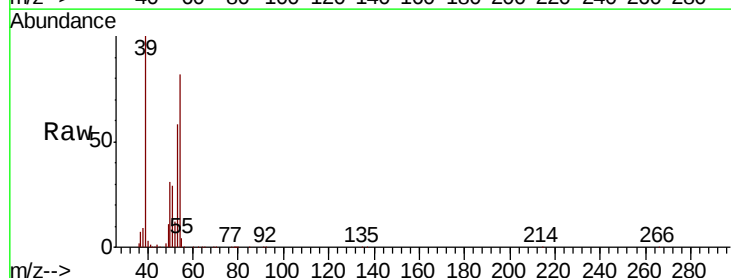
Acq: 27 Jan 2020 10:31

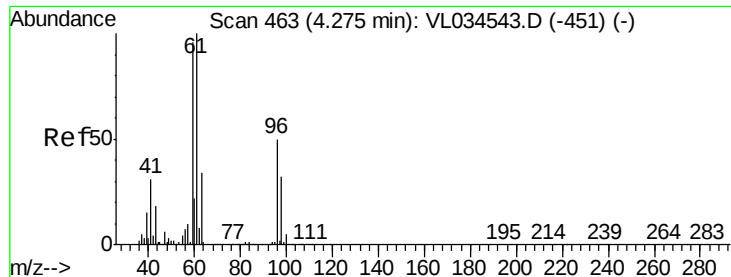
Tgt Ion: 39 Resp: 610922

Ion Ratio Lower Upper

39 100

54 84.3 66.2 99.2



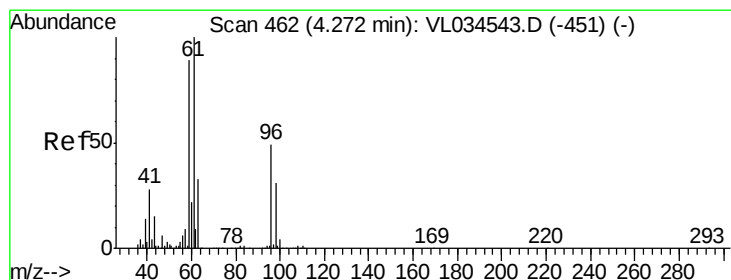
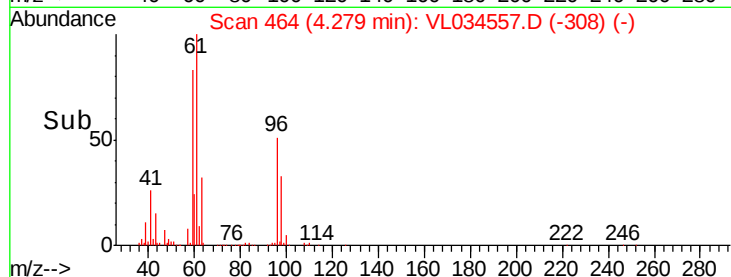
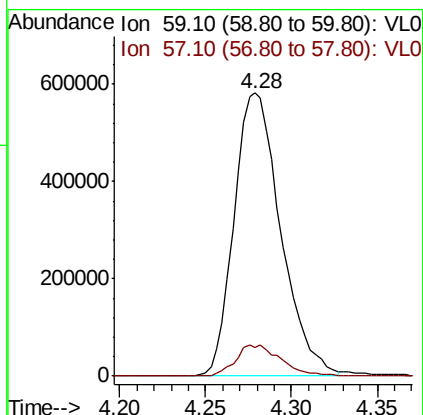
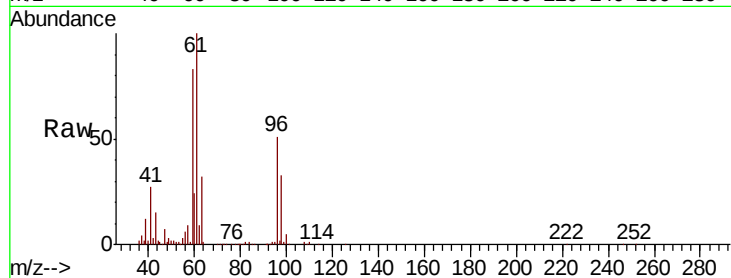


#17

tert-Butyl alcohol
Concen: 8.909 ppbv
RT: 4.28 min Scan# 464
Delta R.T. 0.00 min
Lab File: VL034557.D
Acq: 27 Jan 2020 10:31

Instrument :
MSVOA_L
ClientSampleId :

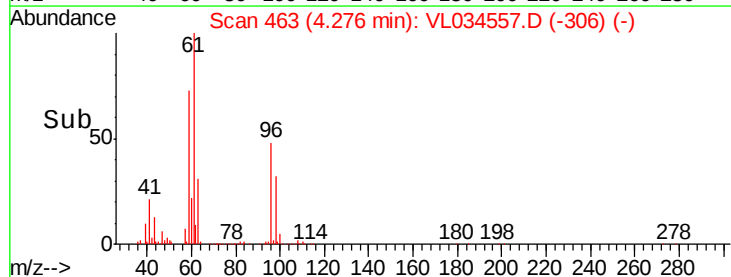
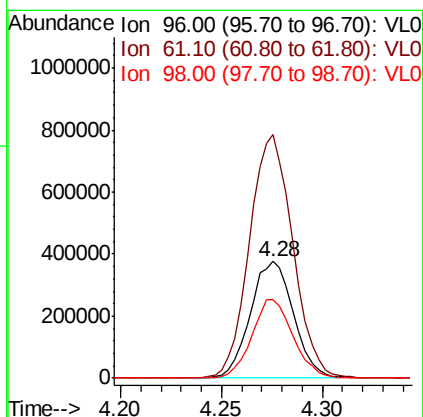
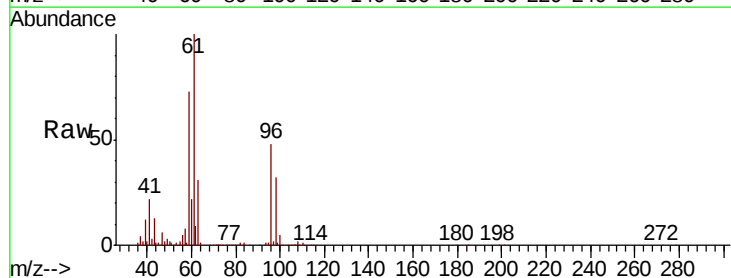
Tot Ion: 59 Resp: 1095470
Ion Ratio Lower Upper
59 100
57 10.8 8.6 12.8

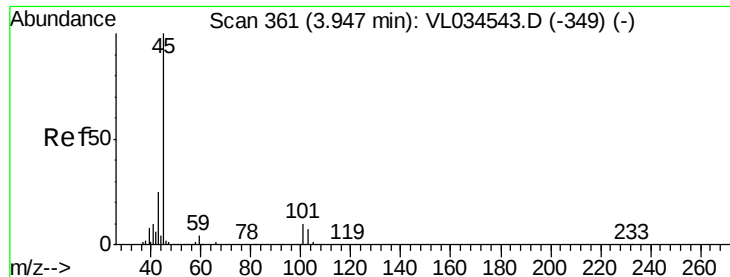


#18

1,1-Dichloroethene
Concen: 10.578 ppbv
RT: 4.28 min Scan# 463
Delta R.T. 0.00 min
Lab File: VL034557.D
Acq: 27 Jan 2020 10:31

Tgt Ion: 96 Resp: 562802
Ion Ratio Lower Upper
96 100
61 208.2 165.9 248.9
98 66.6 51.9 77.9





#19

Isopropyl Alcohol

Concen: 7.992 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

Instrument :

MSVOA_L

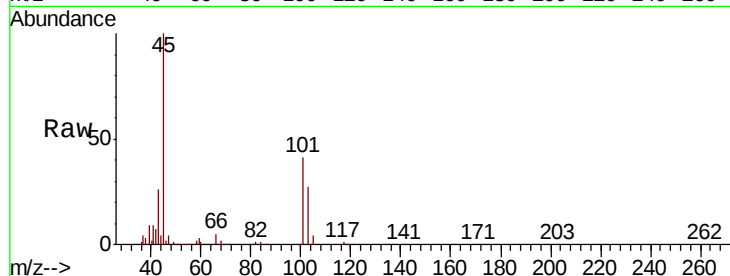
ClientSampleId :

Tot Ion: 45 Resp: 794476

Ion Ratio Lower Upper

45 100

58 2.4 1.4 2.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.95

500000

400000

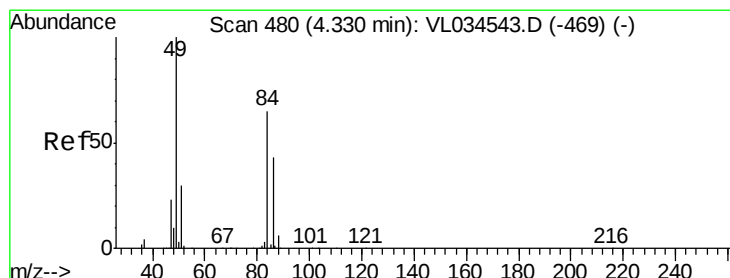
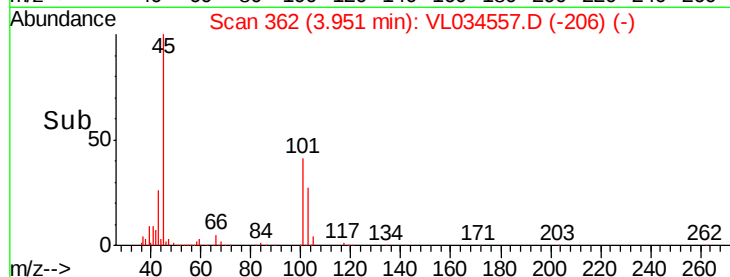
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 8.335 ppbv

RT: 4.33 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

Tgt Ion: 84 Resp: 503643

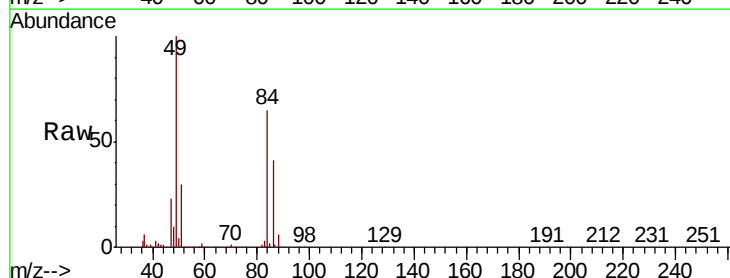
Ion Ratio Lower Upper

84 100

49 151.6 124.4 186.6

51 44.5 37.0 55.6

86 62.8 50.9 76.3



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

800000

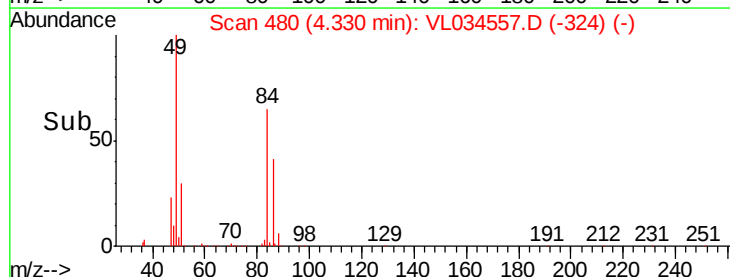
600000

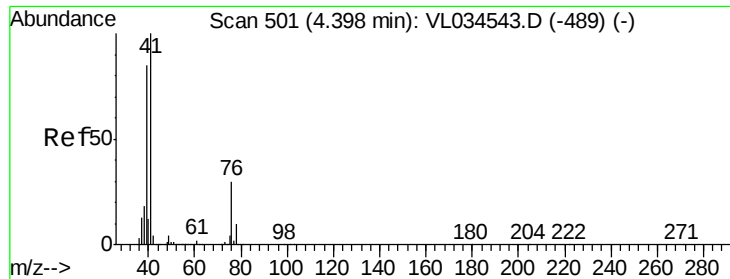
400000

200000

0

Time-->





#21

Allvl Chloride

Concen: 10.682 ppbv

RT: 4.40 min Scan# 502

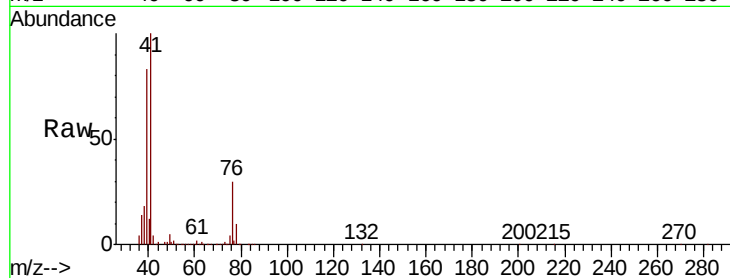
Delta R.T. 0.00 min

Lab File: VL034557.D

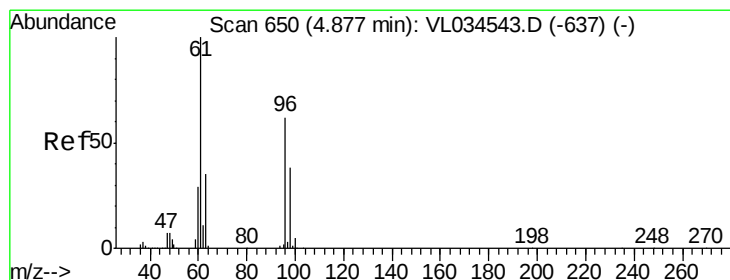
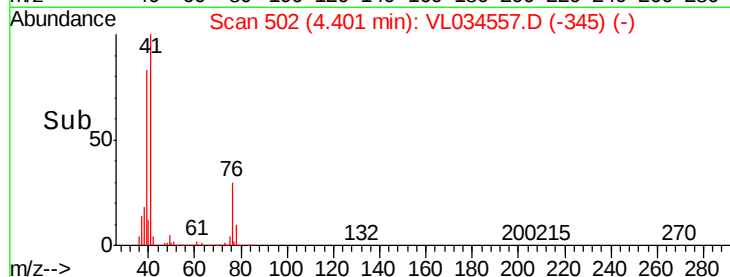
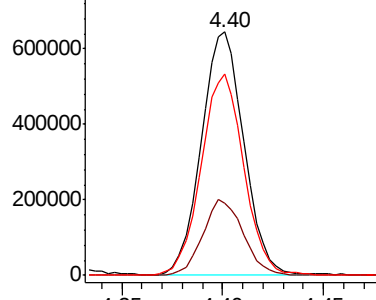
Acq: 27 Jan 2020 10:31

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	41	Resp:	942787
Ion	Ratio	Lower	Upper
41	100		
76	30.1	24.2	36.4
39	83.6	65.8	98.6



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: 11.012 ppbv

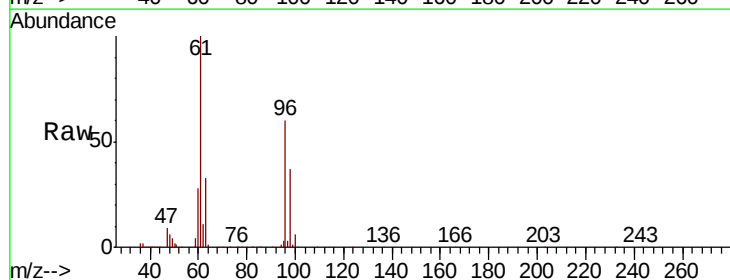
RT: 4.88 min Scan# 651

Delta R.T. 0.00 min

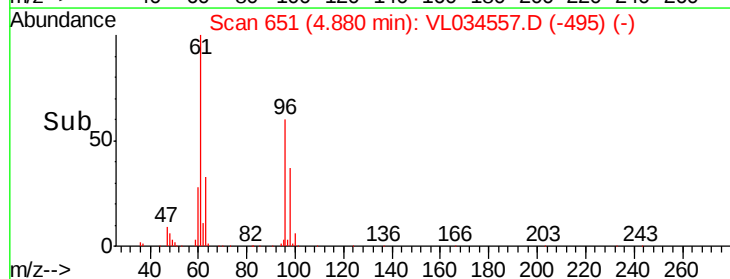
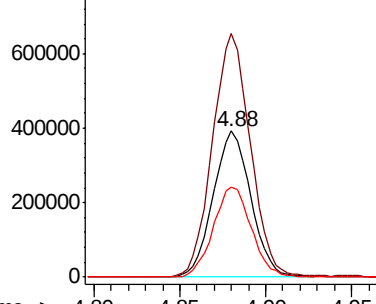
Lab File: VL034557.D

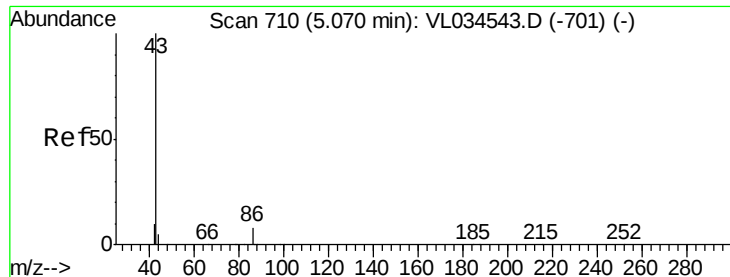
Acq: 27 Jan 2020 10:31

Tgt Ion:	96	Resp:	595941
Ion	Ratio	Lower	Upper
96	100		
61	166.8	128.4	192.6
98	61.4	50.6	75.8



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: 10.099 ppbv

RT: 5.07 min Scan# 711

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

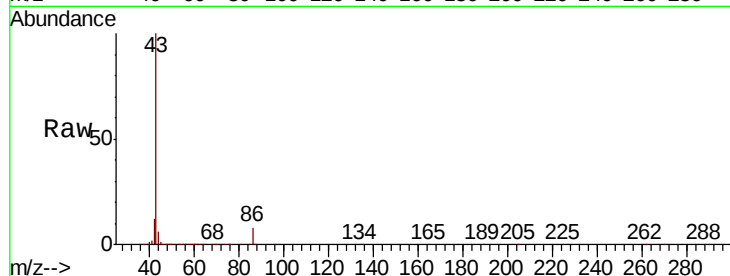
Instrument :

MSVOA_L

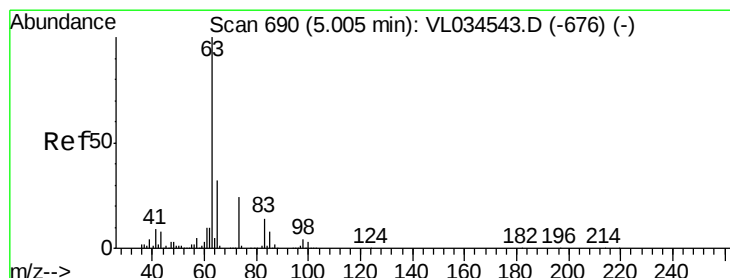
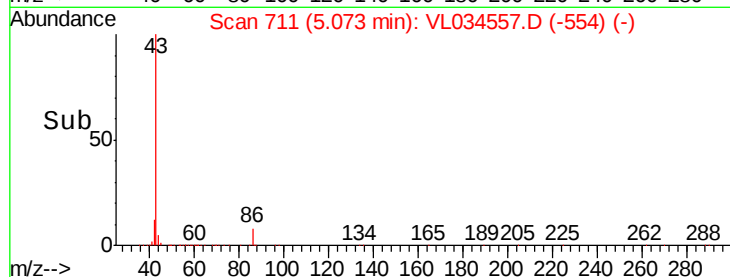
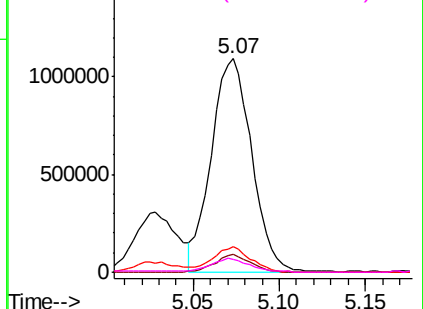
ClientSampleId :

Tot Ion: 43 Resp: 1790492

Ion	Ratio	Lower	Upper
43	100		
86	8.2	5.4	8.2#
42	12.3	8.9	13.3
44	5.7	5.0	7.4



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: 9.840 ppbv

RT: 5.01 min Scan# 691

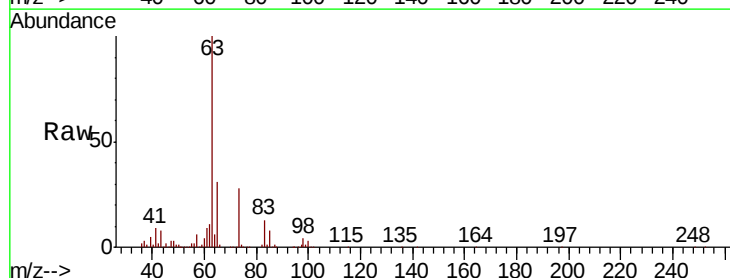
Delta R.T. 0.00 min

Lab File: VL034557.D

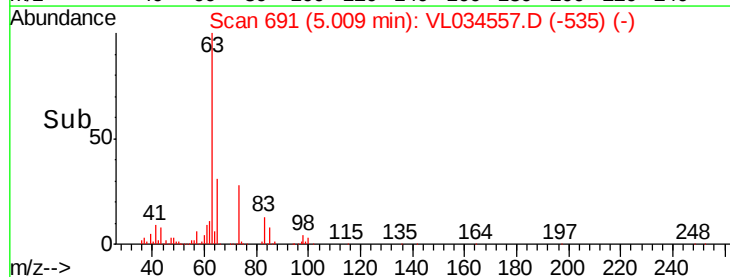
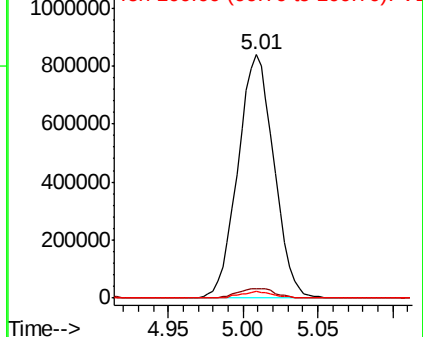
Acq: 27 Jan 2020 10:31

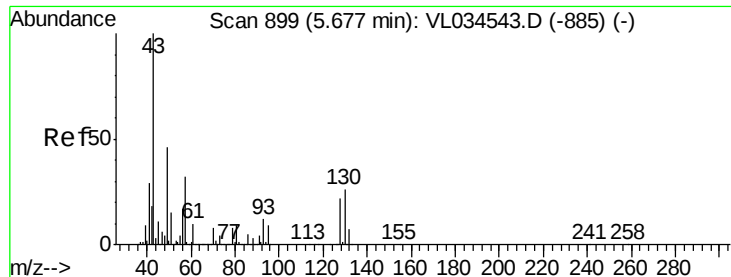
Tgt Ion: 63 Resp: 1401559

Ion	Ratio	Lower	Upper
63	100		
98	4.0	2.1	6.3
100	2.8	1.1	3.3



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



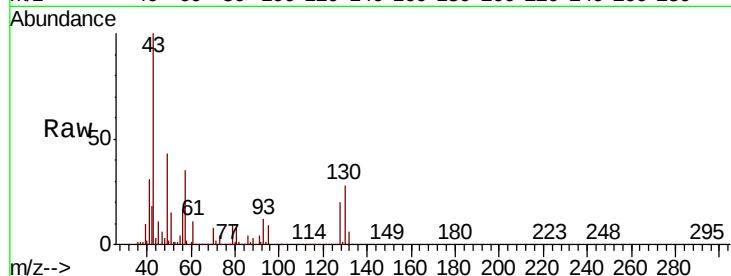


#25
Ethyl Acetate
Concen: 9.783 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.00 min
Lab File: VL034557.D
Acq: 27 Jan 2020 10:31

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 2346136

Ion	Ratio	Lower	Upper
43	100		
45	10.3	8.3	12.5
61	9.7	7.8	11.6
70	7.5	5.8	8.8



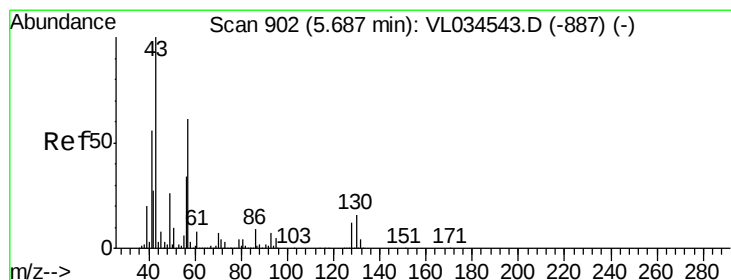
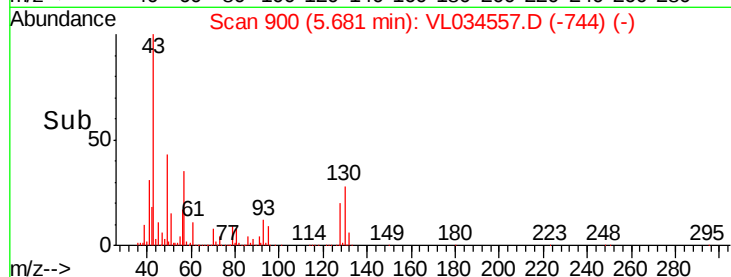
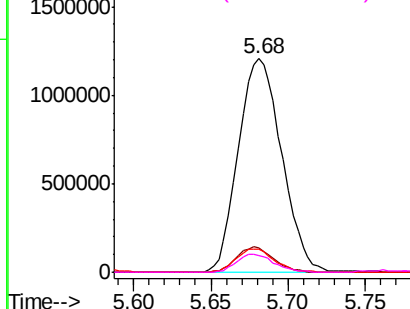
Abundance

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

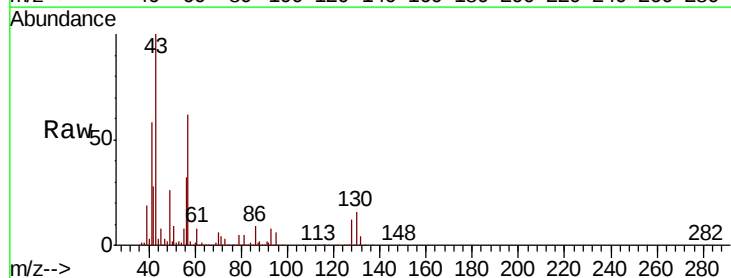
Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 10.094 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.00 min
Lab File: VL034557.D
Acq: 27 Jan 2020 10:31

Tgt Ion: 57 Resp: 1019995

Ion	Ratio	Lower	Upper
57	100		
41	94.7	75.3	112.9
43	232.4	189.4	284.2
56	52.8	42.8	64.2



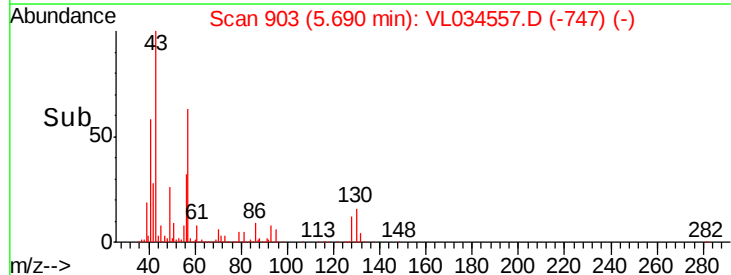
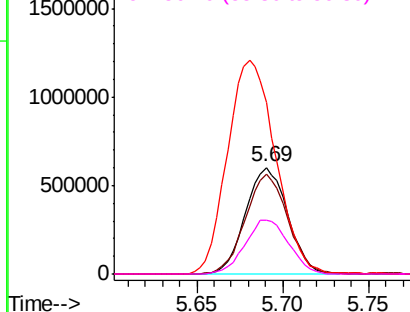
Abundance

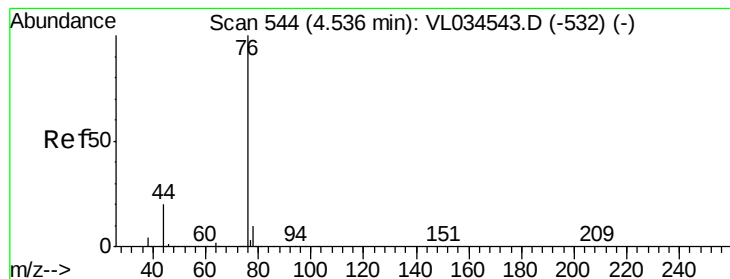
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 11.803 ppbv

RT: 4.54 min Scan# 545

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

Instrument :

MSVOA_L

ClientSampleId :

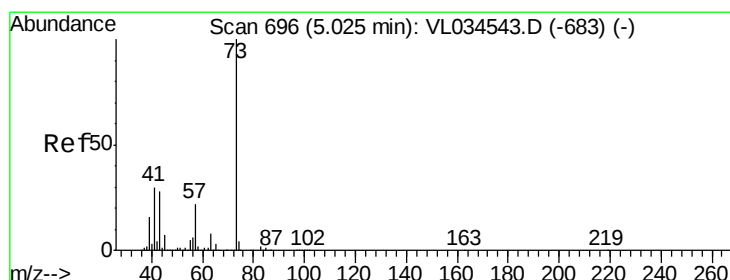
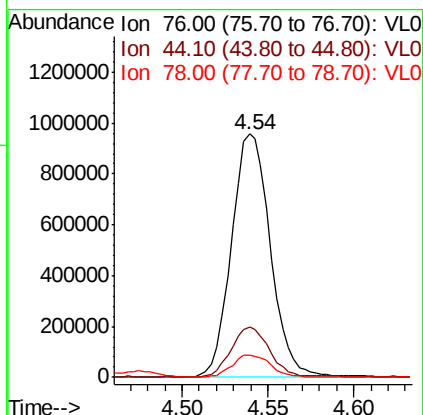
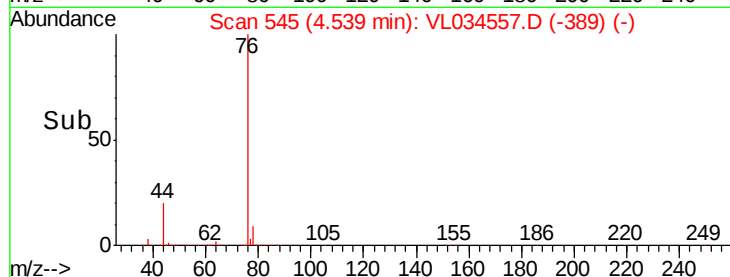
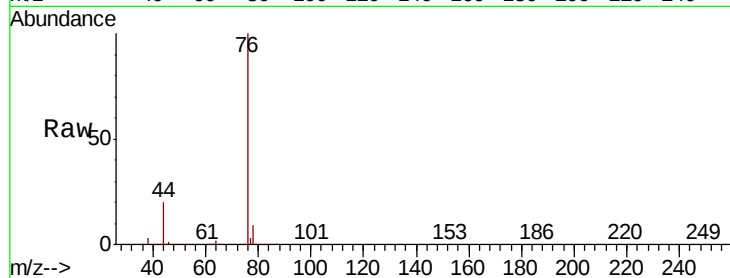
Tot Ion: 76 Resp: 1507555

Ion Ratio Lower Upper

76 100

44 20.8 16.6 25.0

78 9.6 7.4 11.0



#28

Methyl tert-Butyl Ether

Concen: 10.860 ppbv

RT: 5.03 min Scan# 697

Delta R.T. 0.00 min

Lab File: VL034557.D

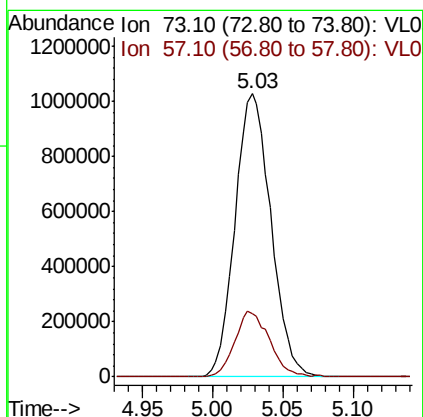
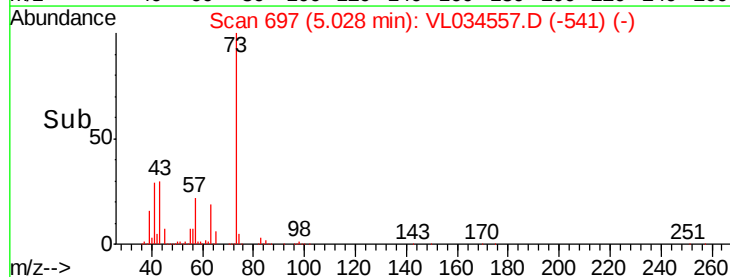
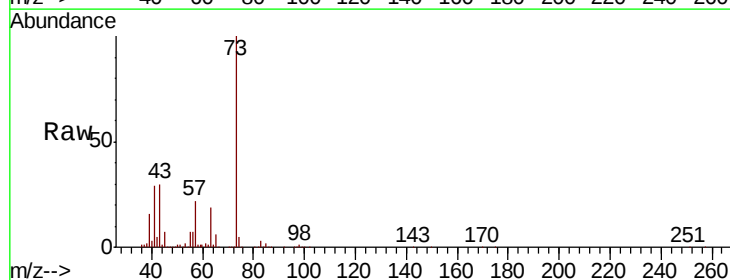
Acq: 27 Jan 2020 10:31

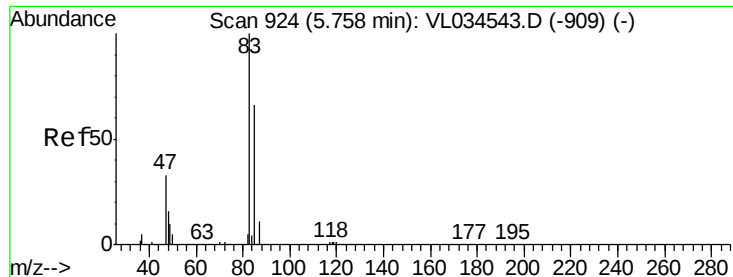
Tgt Ion: 73 Resp: 1832868

Ion Ratio Lower Upper

73 100

57 22.7 18.2 27.2

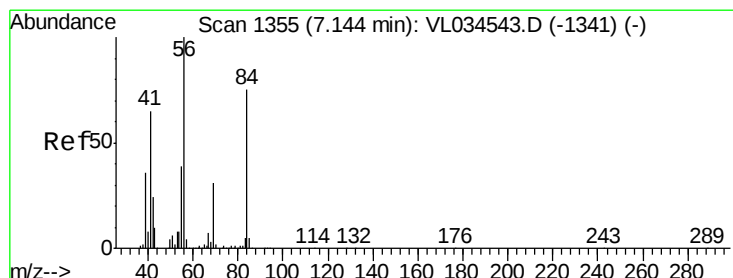
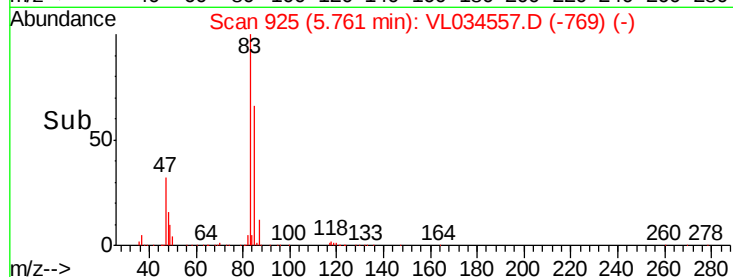
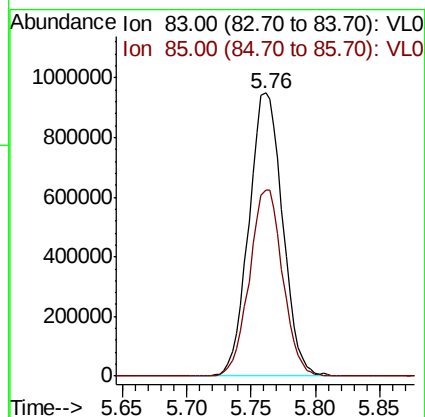
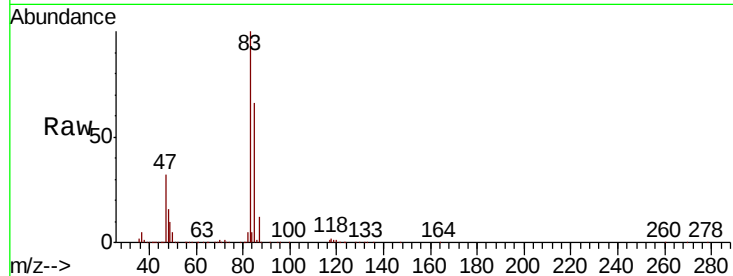




#29
Chloroform
Concen: 9.896 ppbv
RT: 5.76 min Scan# 925
Delta R.T. 0.00 min
Lab File: VL034557.D
Acq: 27 Jan 2020 10:31

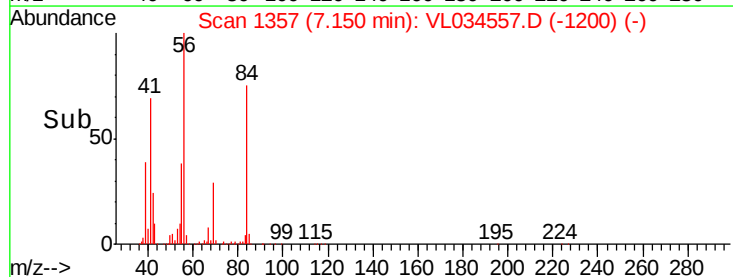
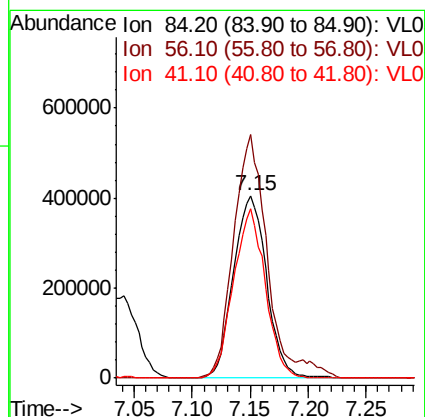
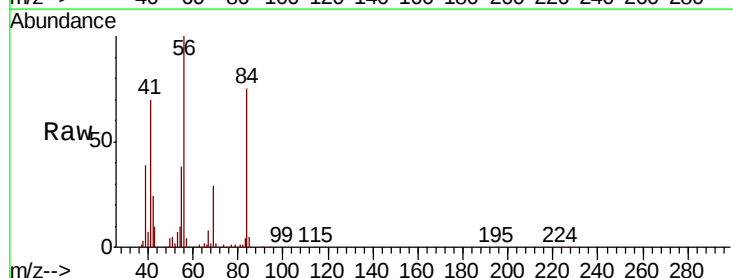
Instrument :
MSVOA_L
ClientSampleId :

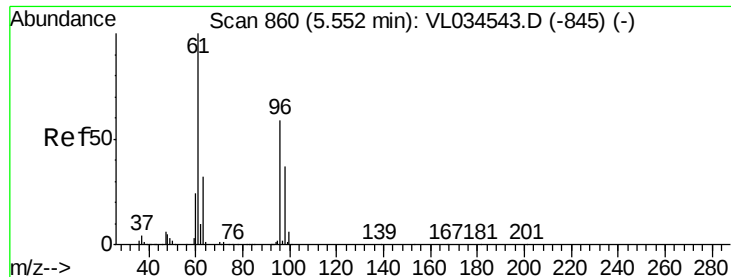
Tot Ion: 83 Resp: 1730359
Ion Ratio Lower Upper
83 100
85 65.7 51.0 76.6



#30
Cyclohexane
Concen: 10.695 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. 0.00 min
Lab File: VL034557.D
Acq: 27 Jan 2020 10:31

Tgt Ion: 84 Resp: 803291
Ion Ratio Lower Upper
84 100
56 137.0 112.7 169.1
41 89.0 73.0 109.4



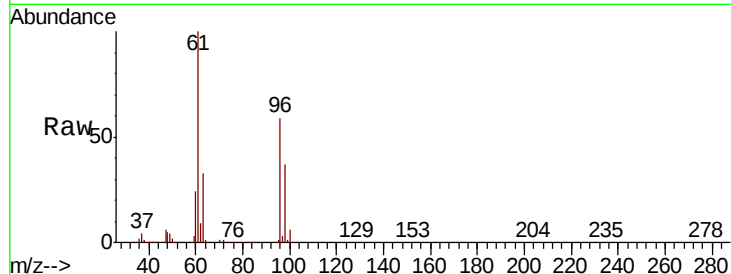


#31

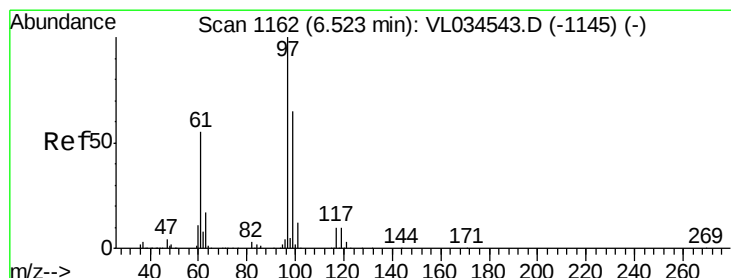
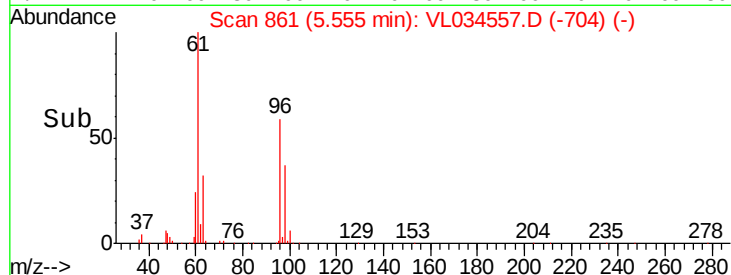
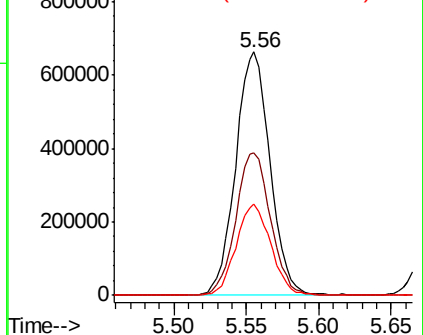
cis-1,2-Dichloroethene
Concen: 10.565 ppbv
RT: 5.56 min Scan# 861
Delta R.T. 0.00 min
Lab File: VL034557.D
Acq: 27 Jan 2020 10:31

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 61 Resp: 1087976
Ion Ratio Lower Upper
61 100
96 58.7 47.1 70.7
98 37.4 31.0 46.6



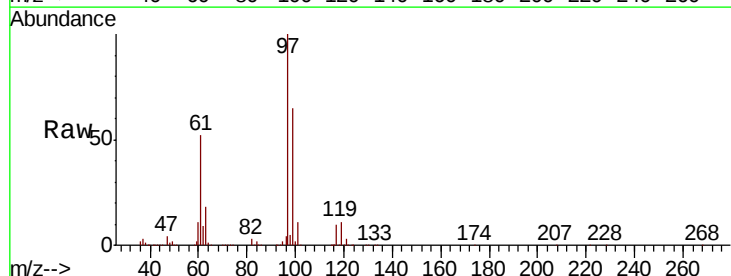
Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



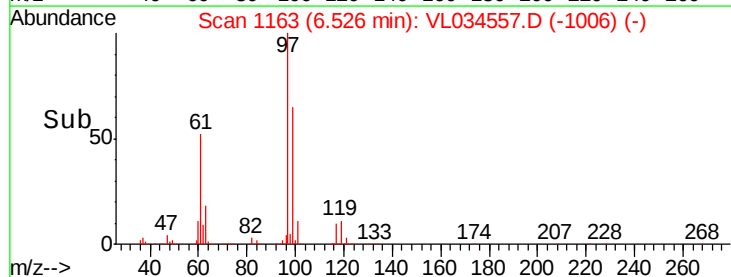
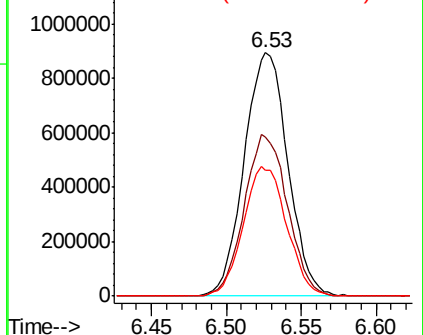
#32

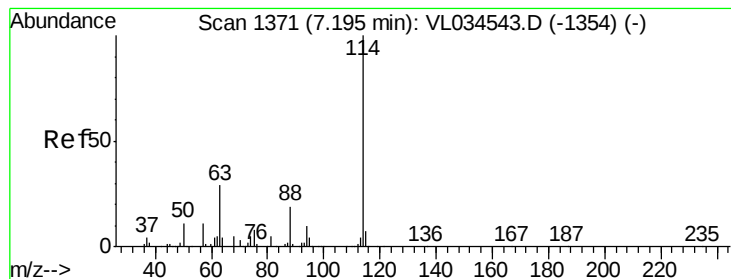
1,1,1-Trichloroethane
Concen: 10.011 ppbv
RT: 6.53 min Scan# 1163
Delta R.T. 0.00 min
Lab File: VL034557.D
Acq: 27 Jan 2020 10:31

Tgt Ion: 97 Resp: 1816935
Ion Ratio Lower Upper
97 100
99 65.7 51.7 77.5
61 53.1 42.9 64.3



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.20 min Scan# 1372

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

Instrument :

MSVOA_L

ClientSampleId :

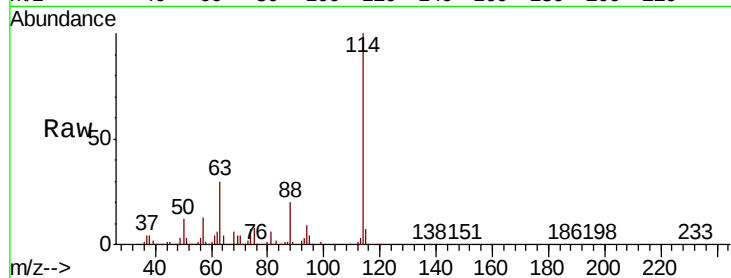
Tot Ion:114 Resp: 2175109

Ion Ratio Lower Upper

114 100

63 29.3 24.1 36.1

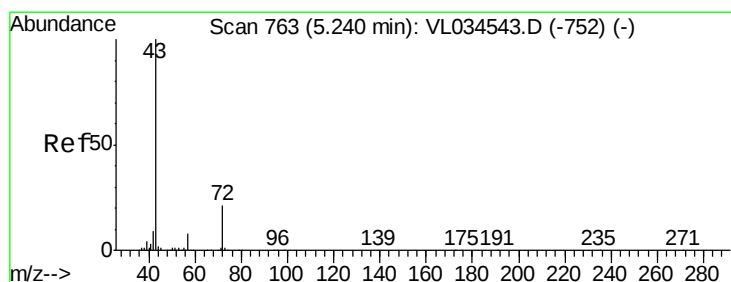
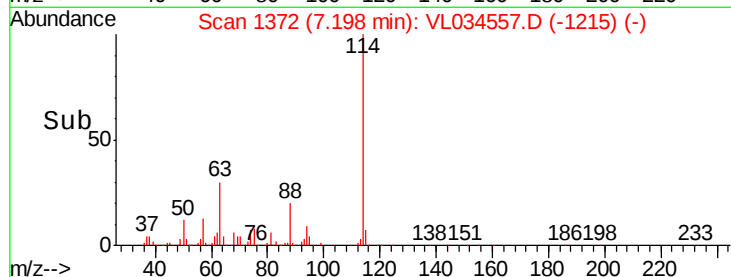
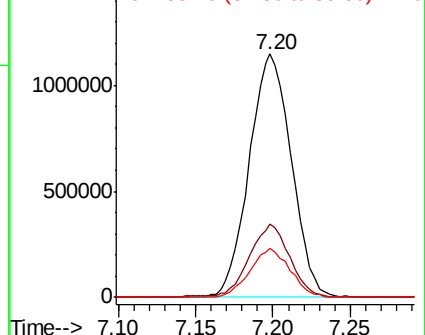
88 19.1 15.7 23.5



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: 9.689 ppbv

RT: 5.24 min Scan# 764

Delta R.T. 0.00 min

Lab File: VL034557.D

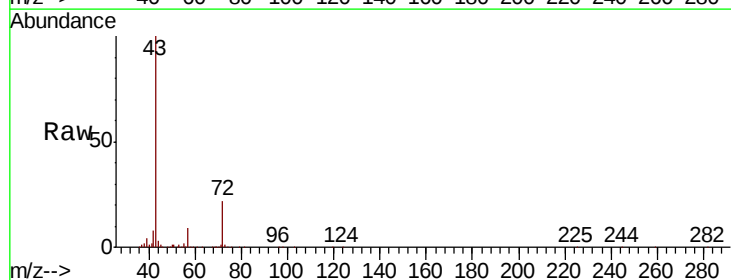
Acq: 27 Jan 2020 10:31

Tgt Ion: 43 Resp: 1506081

Ion Ratio Lower Upper

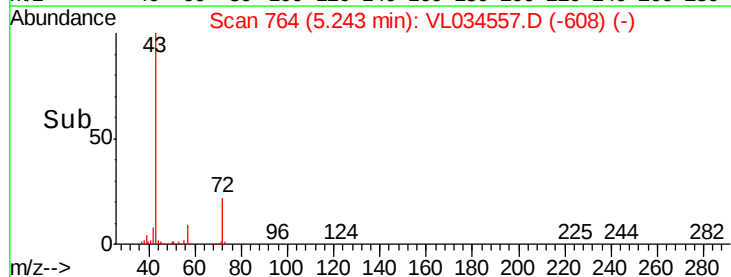
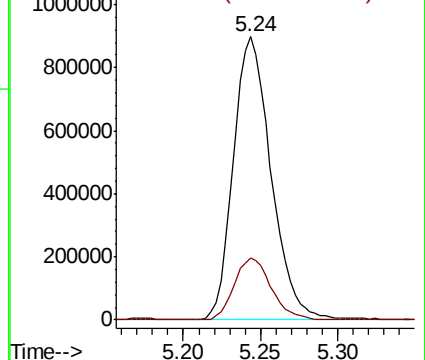
43 100

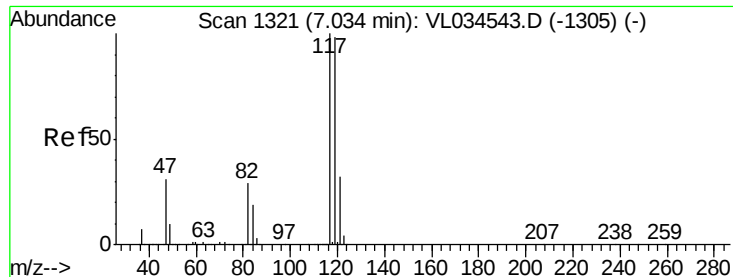
72 21.8 17.0 25.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 10.052 ppbv

RT: 7.04 min Scan# 1322

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

Instrument :

MSVOA_L

ClientSampleId :

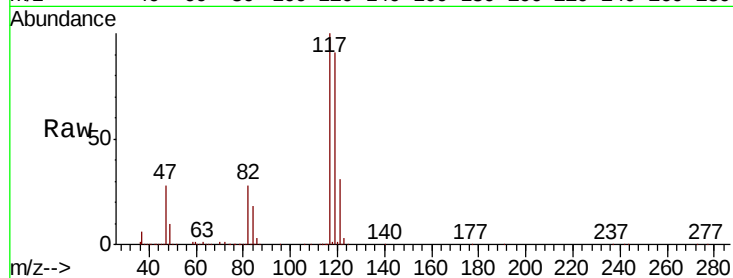
Tot Ion:117 Resp: 1982772

Ion Ratio Lower Upper

117 100

119 91.5 78.7 118.1

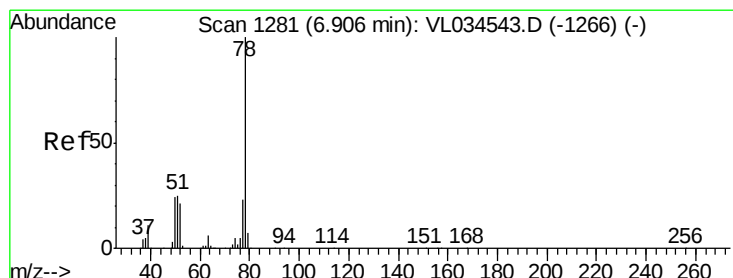
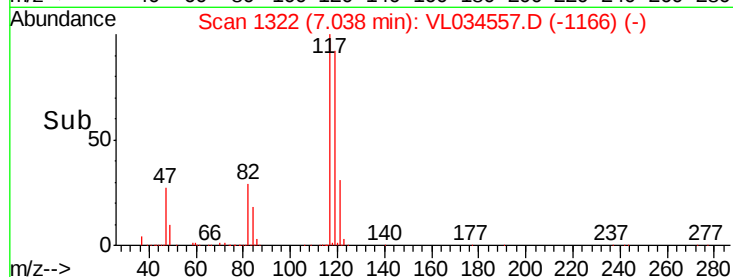
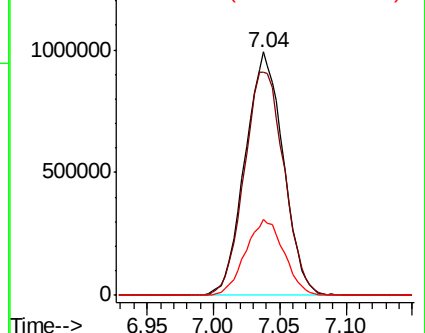
121 31.1 25.9 38.9



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.054 ppbv

RT: 6.91 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

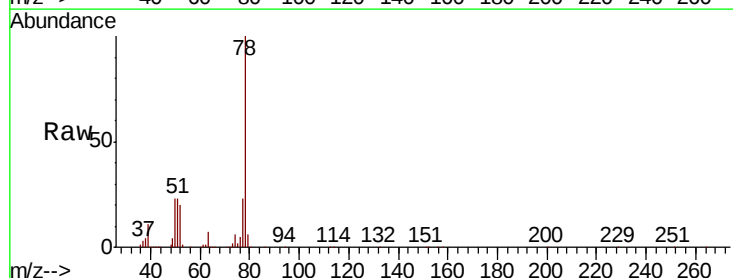
Tgt Ion: 78 Resp: 1906289

Ion Ratio Lower Upper

78 100

77 22.9 18.6 28.0

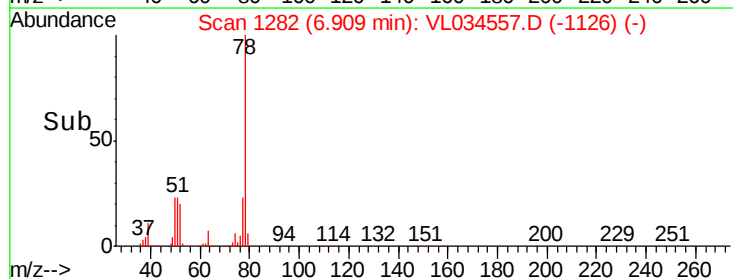
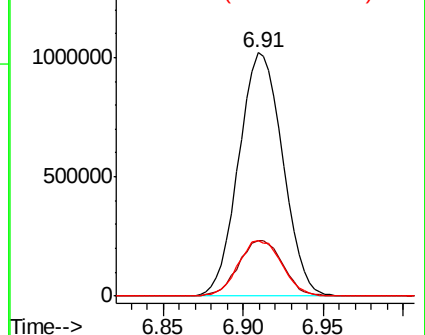
50 22.4 18.8 28.2

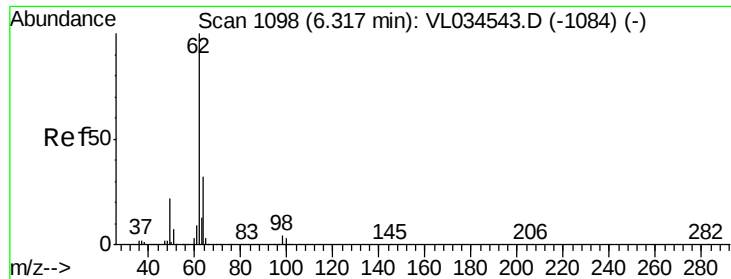


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 9.929 ppbv

RT: 6.32 min Scan# 1099

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

Instrument :

MSVOA_L

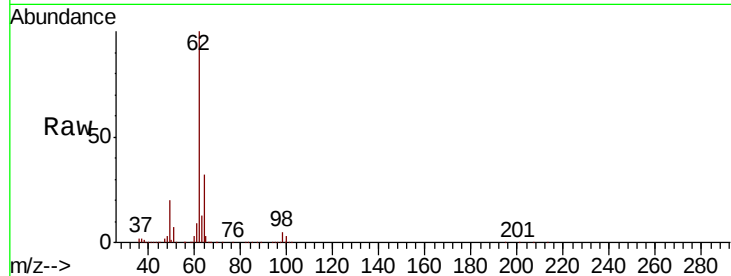
ClientSampleId :

Tot Ion: 62 Resp: 1528734

Ion Ratio Lower Upper

62 100

98 4.6 3.8 5.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

800000

600000

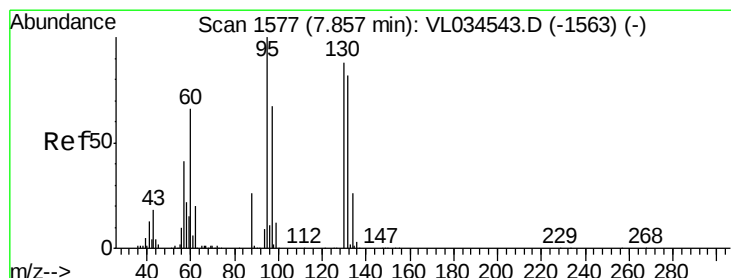
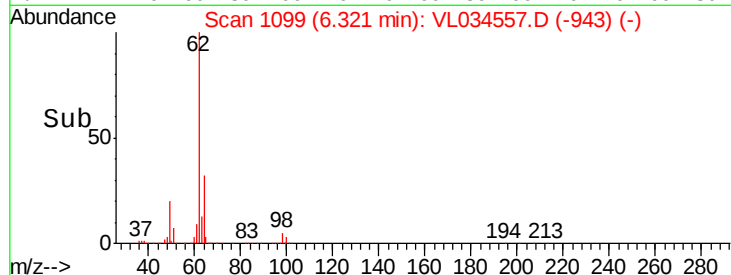
400000

200000

0

6.25 6.30 6.35 6.40

Time-->



#38

Trichloroethene

Concen: 10.659 ppbv

RT: 7.86 min Scan# 1579

Delta R.T. 0.01 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

Tgt Ion:130 Resp: 816392

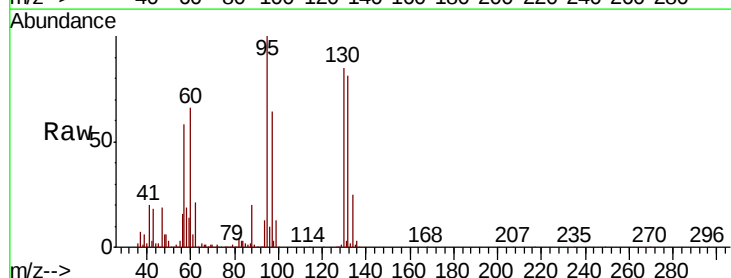
Ion Ratio Lower Upper

130 100

95 117.3 94.2 141.2

132 95.6 76.1 114.1

97 74.7 60.2 90.2



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

800000

600000

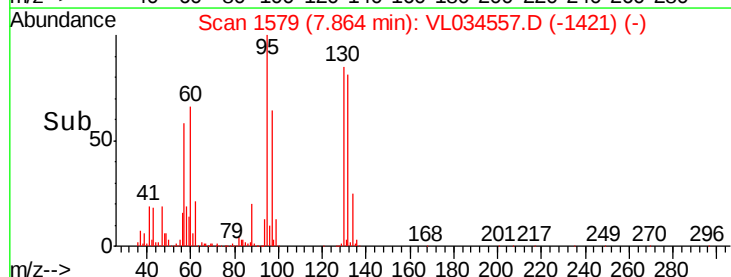
400000

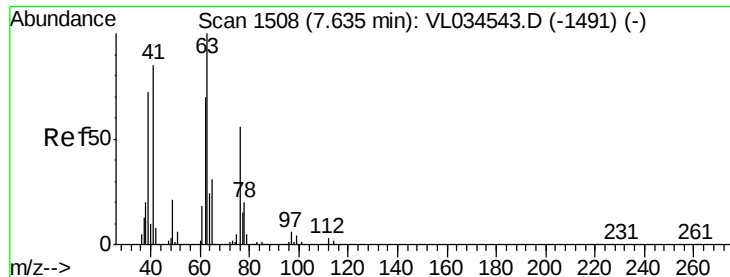
200000

0

7.80 7.85 7.90

Time-->





#39

1,2-Dichloropropane

Concen: 9.924 ppbv

RT: 7.64 min Scan# 1509

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

Instrument :

MSVOA_L

ClientSampled :

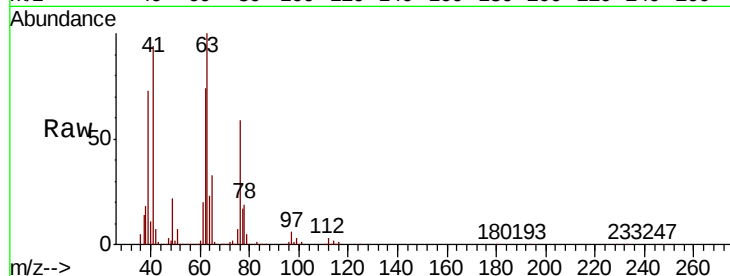
Tot Ion: 63 Resp: 773693

Ion Ratio Lower Upper

63 100

41 94.5 66.1 99.1

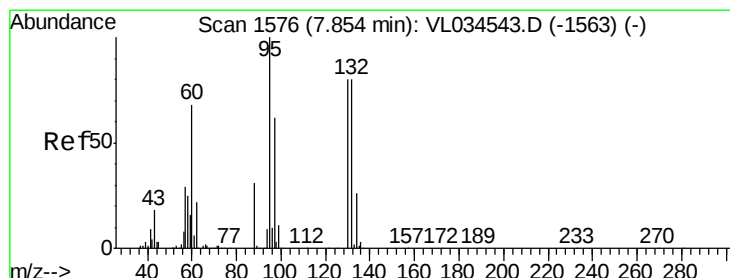
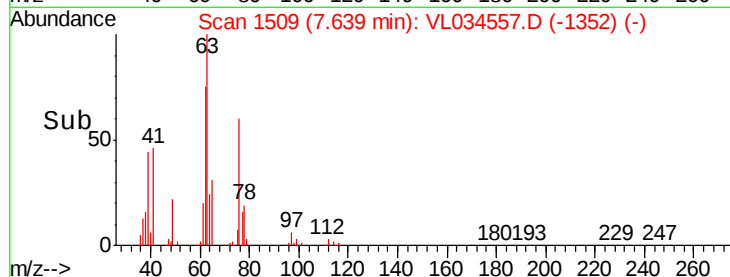
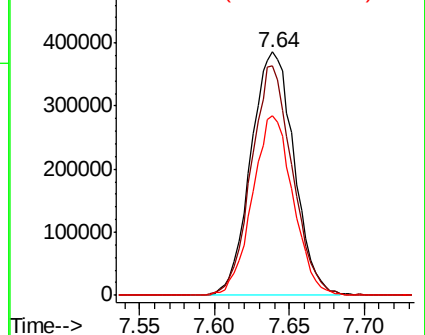
62 74.0 54.9 82.3



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 8.582 ppbv

RT: 7.85 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

Tgt Ion: 88 Resp: 270795

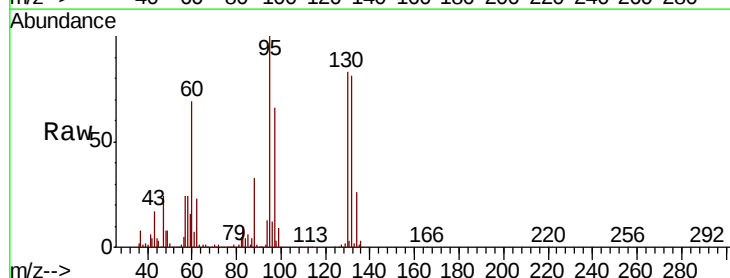
Ion Ratio Lower Upper

88 100

58 142.9 107.9 161.9

43 298.3 0.0 0.0#

57 1253.1 0.0 0.0#

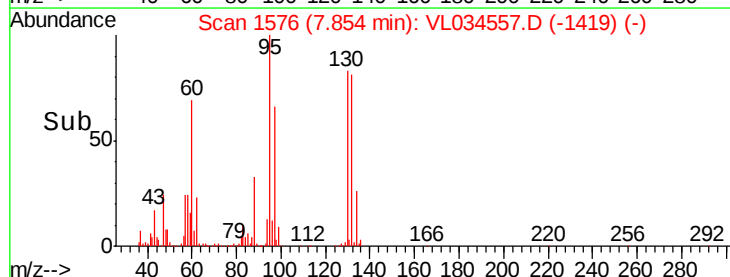
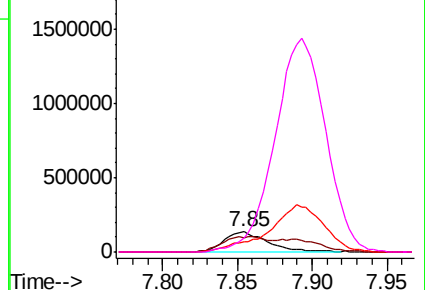


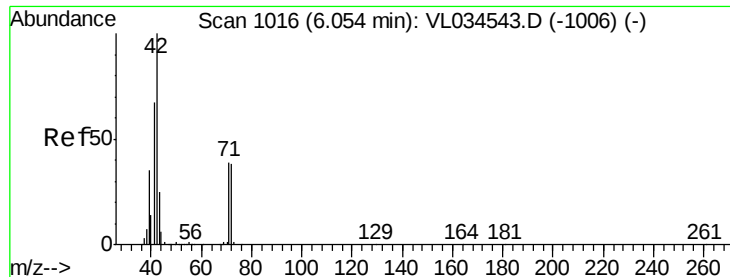
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

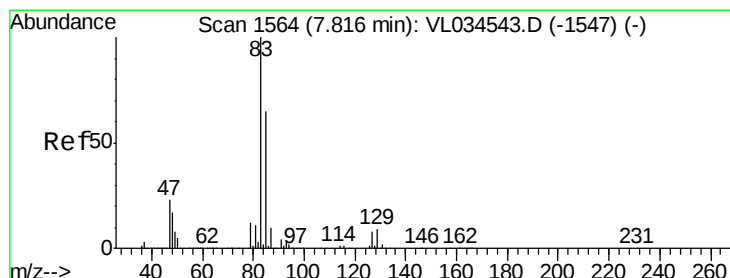
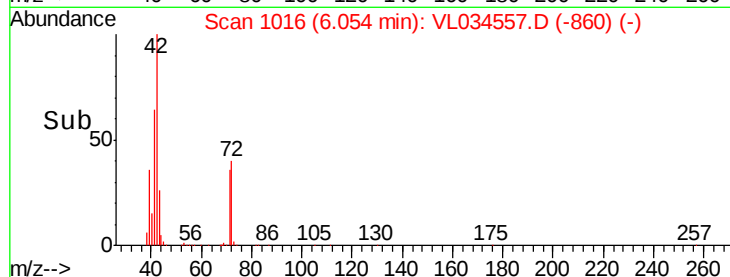
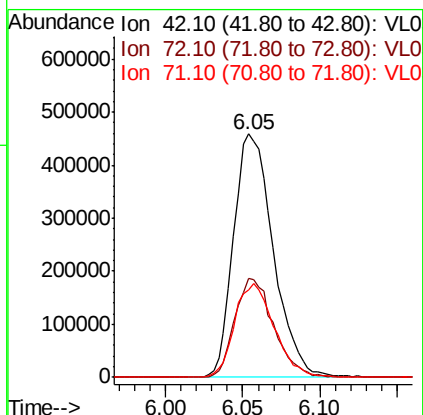
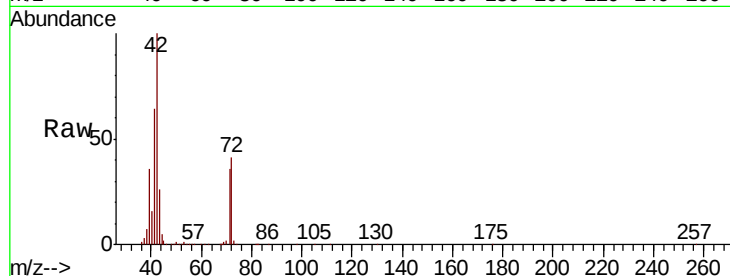




#41
Tetrahydrofuran
Concen: 10.257 ppbv
RT: 6.05 min Scan# 1016
Delta R.T. 0.00 min
Lab File: VL034557.D
Acq: 27 Jan 2020 10:31

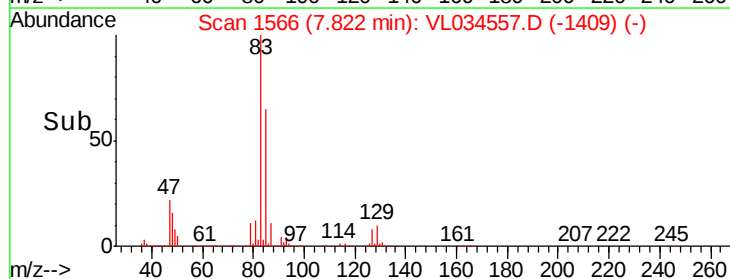
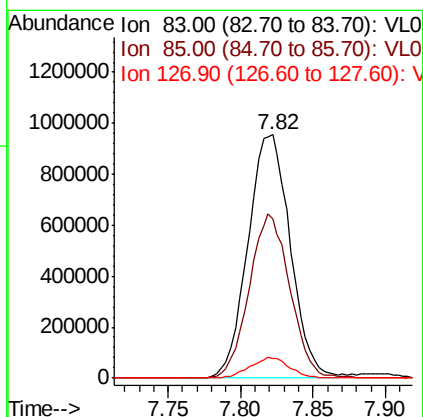
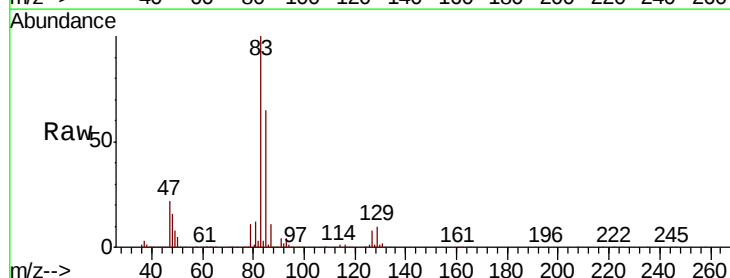
Instrument :
MSVOA_L
ClientSampleId :

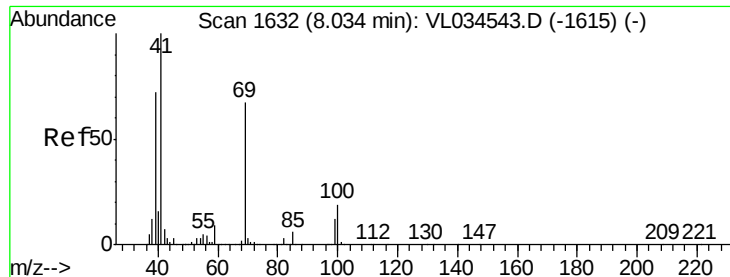
Tot Ion: 42 Resp: 817842
Ion Ratio Lower Upper
42 100
72 40.0 30.9 46.3
71 38.6 28.9 43.3



#42
Bromodichloromethane
Concen: 10.229 ppbv
RT: 7.82 min Scan# 1566
Delta R.T. 0.00 min
Lab File: VL034557.D
Acq: 27 Jan 2020 10:31

Tgt Ion: 83 Resp: 1938050
Ion Ratio Lower Upper
83 100
85 65.3 49.4 74.2
127 8.2 6.2 9.4





#43

Methyl Methacrylate

Concen: 10.659 ppbv

RT: 8.04 min Scan# 1633

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

Instrument :

MSVOA_L

ClientSampleId :

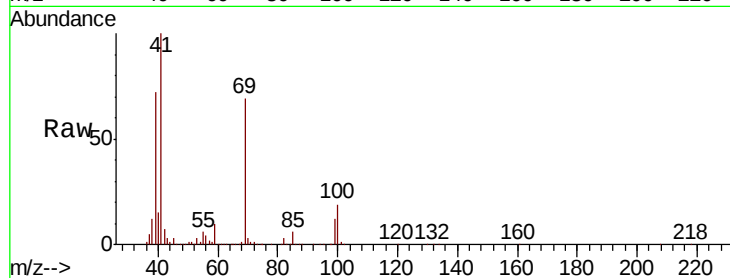
Tot Ion: 69 Resp: 824361

Ion Ratio Lower Upper

69 100

41 150.0 124.0 186.0

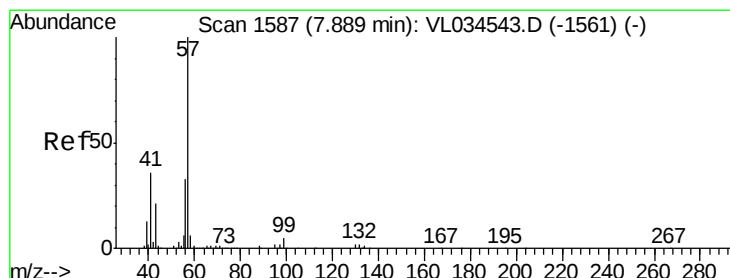
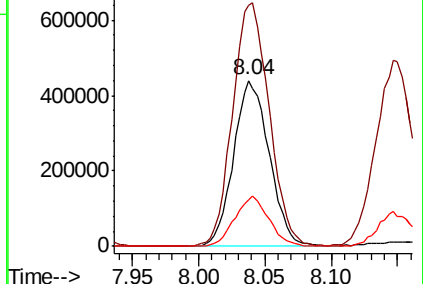
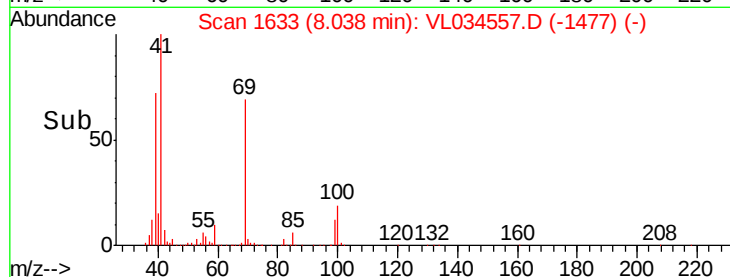
100 28.9 23.1 34.7



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: 9.667 ppbv

RT: 7.89 min Scan# 1588

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

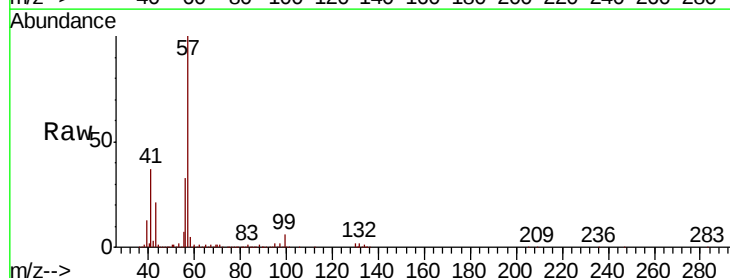
Tgt Ion: 57 Resp: 3390710

Ion Ratio Lower Upper

57 100

41 36.6 29.0 43.4

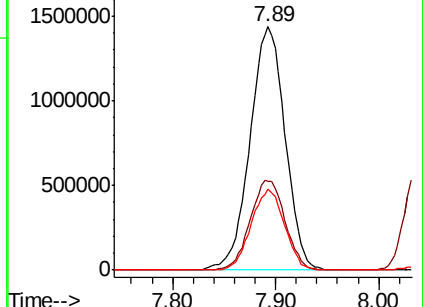
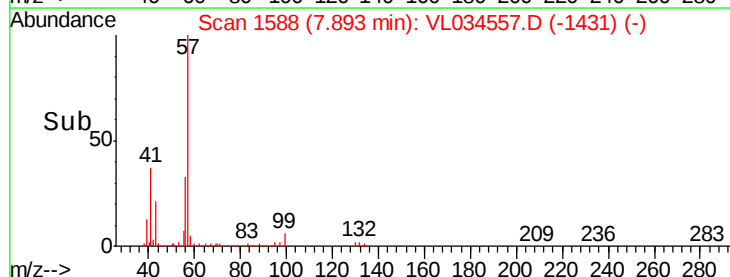
56 31.6 24.9 37.3

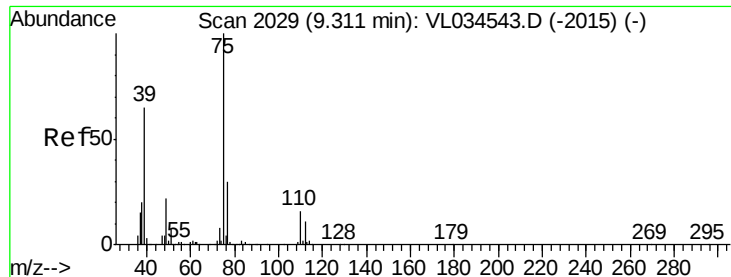


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#45

t-1,3-Dichloropropene

Concen: 11.908 ppbv

RT: 9.31 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

Instrument :

MSVOA_L

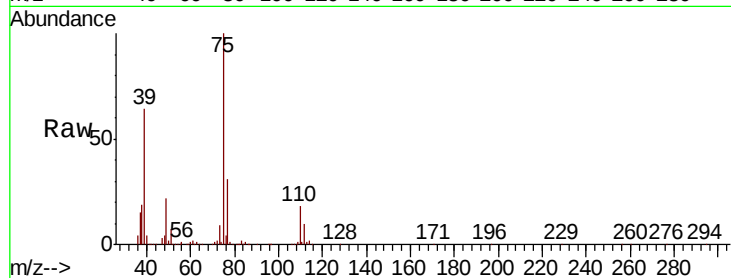
ClientSampleId :

Tot Ion: 75 Resp: 1186345

Ion Ratio Lower Upper

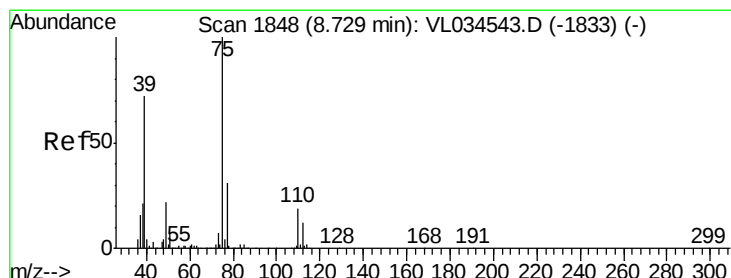
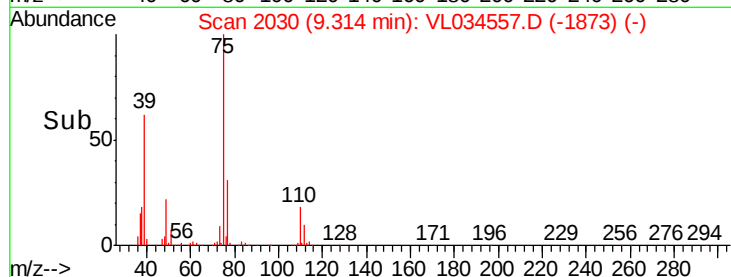
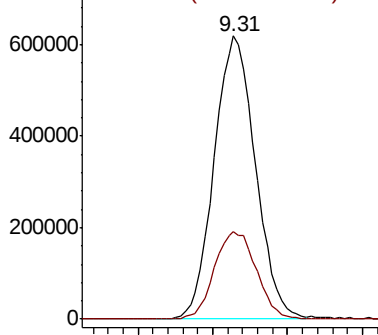
75 100

77 30.8 24.2 36.2



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: 11.355 ppbv

RT: 8.74 min Scan# 1850

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

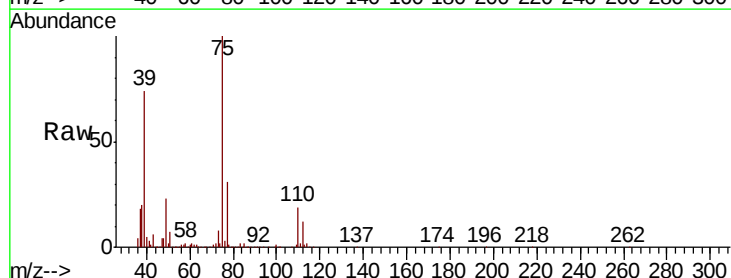
Tgt Ion: 75 Resp: 1293156

Ion Ratio Lower Upper

75 100

39 73.8 60.5 90.7

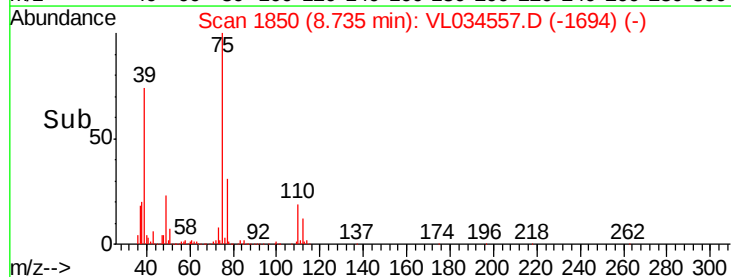
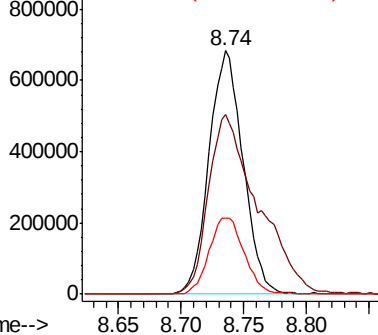
77 31.1 24.8 37.2

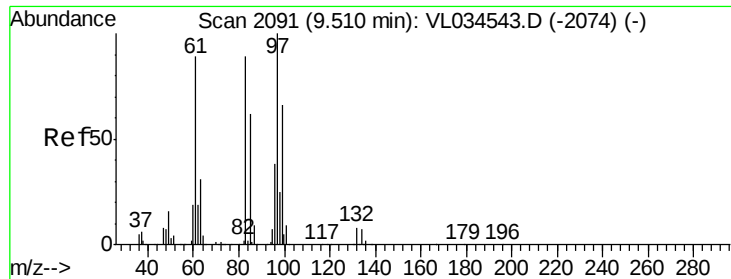


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#47

1,1,2-Trichloroethane

Concen: 9.808 ppbv

RT: 9.51 min Scan# 2092

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 97 Resp: 842920

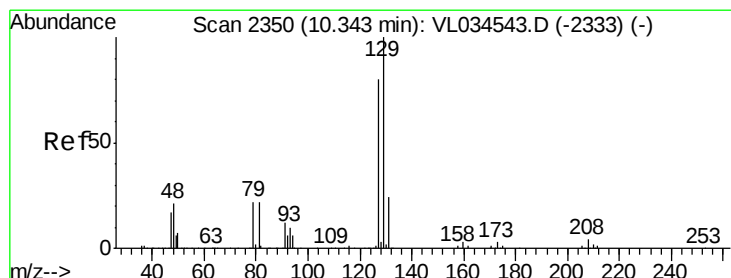
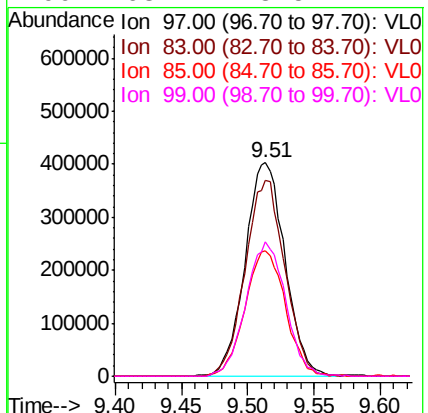
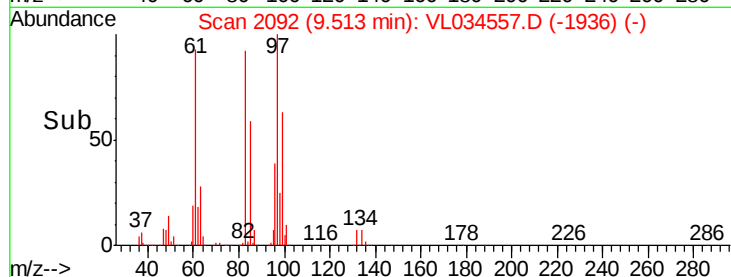
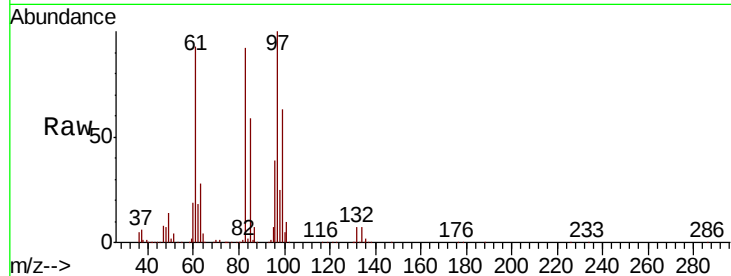
Ion	Ratio	Lower	Upper
97	100		
83	91.9	75.0	112.4
85	58.9	48.2	72.4
99	63.1	48.5	72.7

97 100

83 91.9 75.0 112.4

85 58.9 48.2 72.4

99 63.1 48.5 72.7



#48

Dibromochloromethane

Concen: 10.947 ppbv

RT: 10.35 min Scan# 2351

Delta R.T. 0.00 min

Lab File: VL034557.D

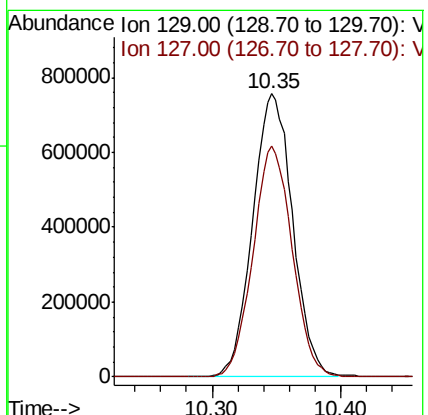
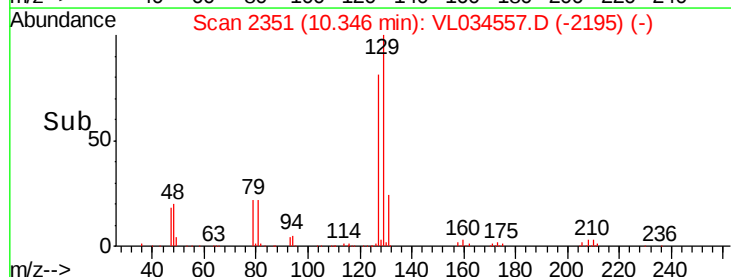
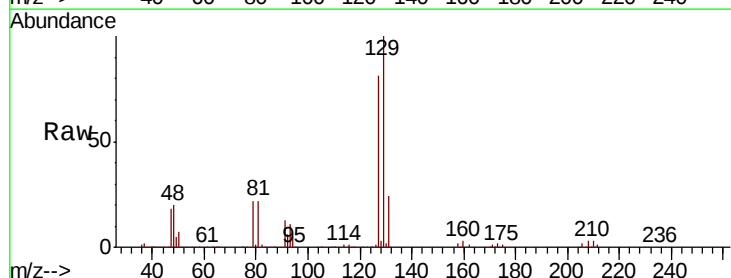
Acq: 27 Jan 2020 10:31

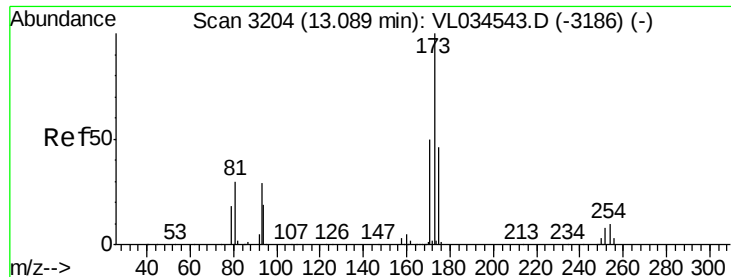
Tgt Ion: 129 Resp: 1631038

Ion	Ratio	Lower	Upper
129	100		
127	80.3	39.4	118.2

129 100

127 80.3 39.4 118.2





#49

Bromoform

Concen: 10.994 ppbv

RT: 13.10 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

Instrument :

MSVOA_L

ClientSampled :

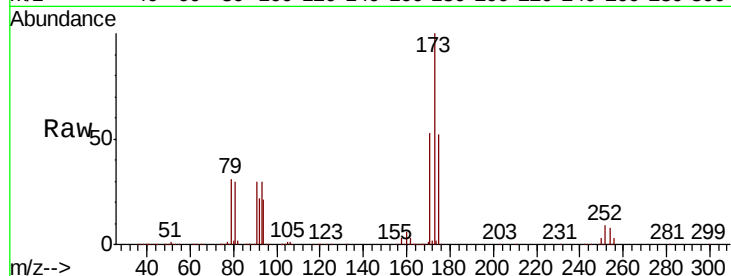
Tot Ion:173 Resp: 1482928

Ion Ratio Lower Upper

173 100

175 50.7 39.8 59.8

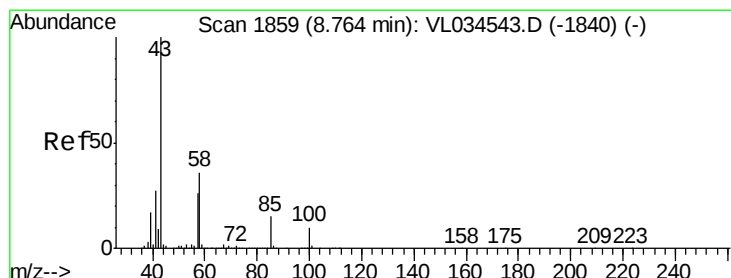
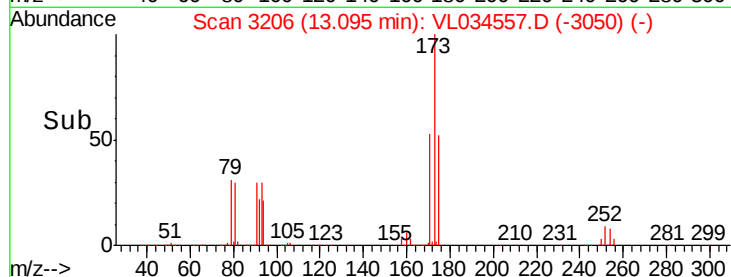
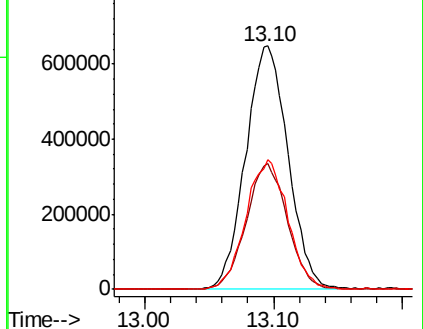
171 53.0 42.1 63.1



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: 9.970 ppbv

RT: 8.77 min Scan# 1861

Delta R.T. 0.00 min

Lab File: VL034557.D

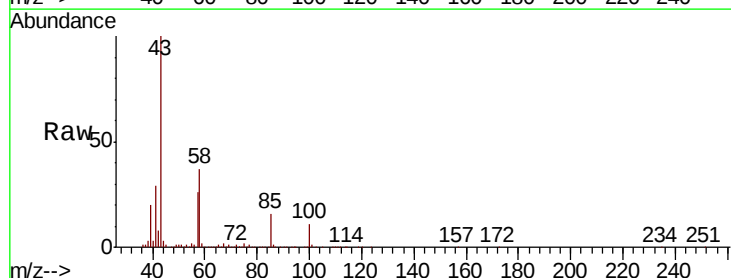
Acq: 27 Jan 2020 10:31

Tgt Ion: 43 Resp: 2249533

Ion Ratio Lower Upper

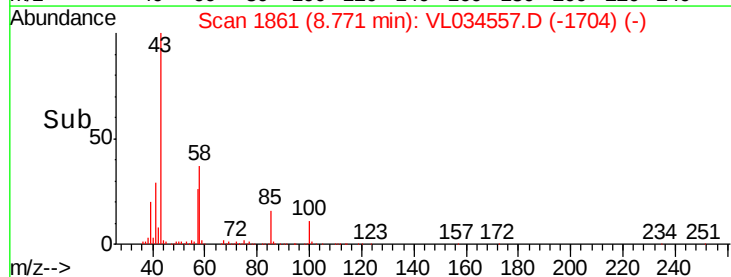
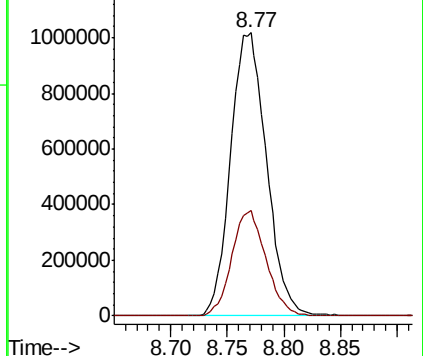
43 100

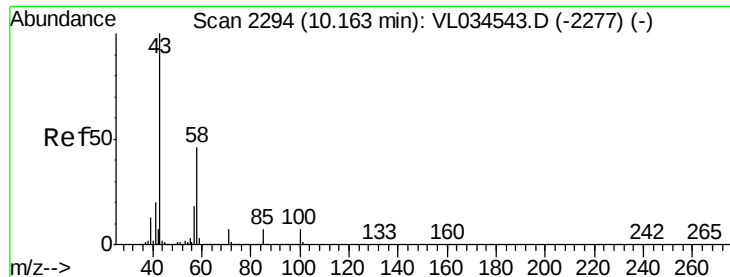
58 35.5 28.2 42.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

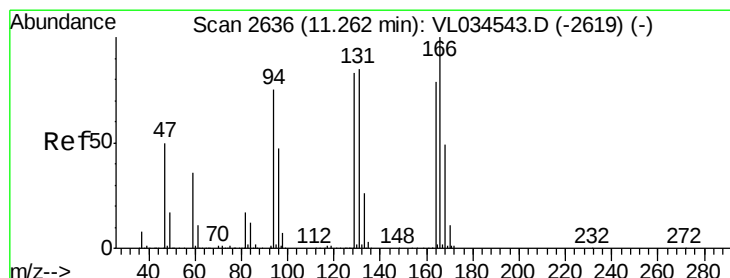
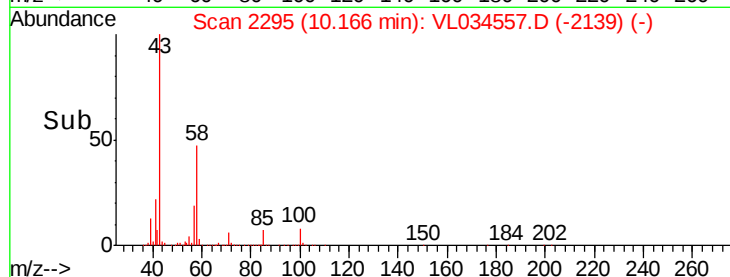
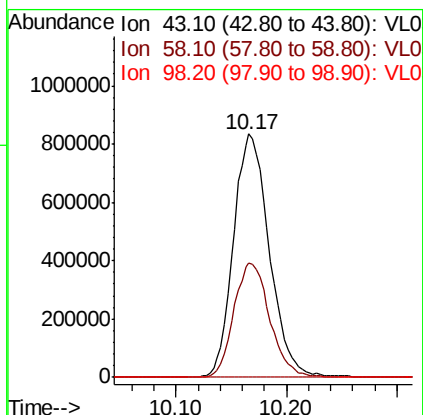
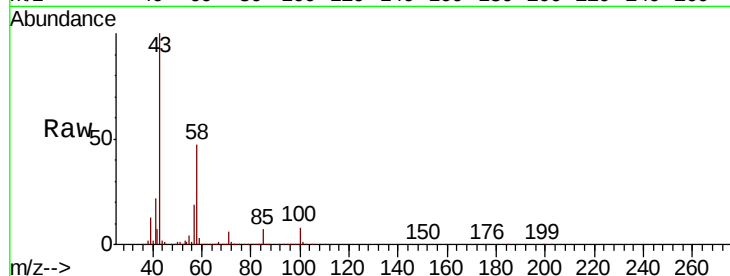




#51
2-Hexanone
Concen: 10.291 ppbv
RT: 10.17 min Scan# 2295
Delta R.T. 0.00 min
Lab File: VL034557.D
Acq: 27 Jan 2020 10:31

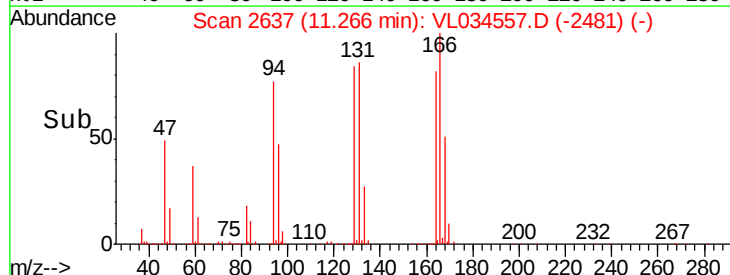
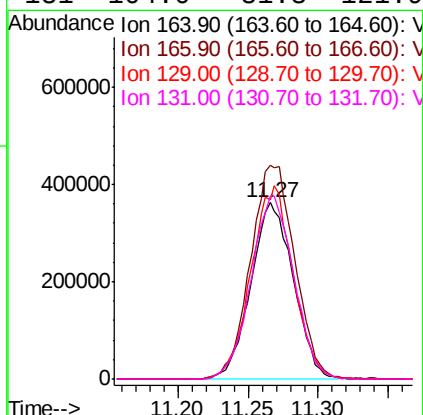
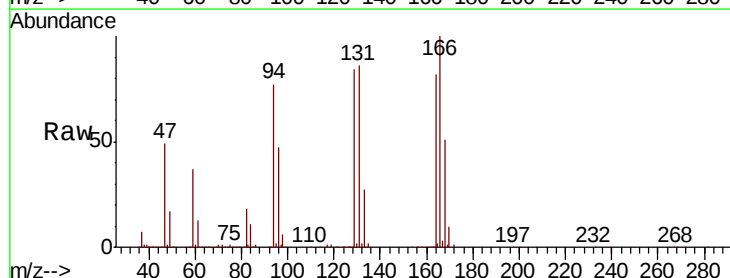
Instrument :
MSVOA_L
ClientSampleId :

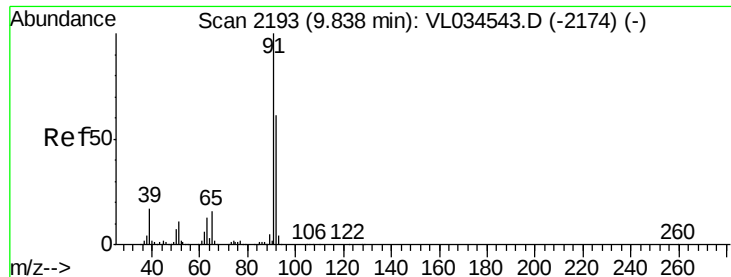
Tot Ion: 43 Resp: 1874401
Ion Ratio Lower Upper
43 100
58 47.0 37.4 56.0
98 0.3 0.2 0.2#



#52
Tetrachloroethene
Concen: 10.305 ppbv
RT: 11.27 min Scan# 2637
Delta R.T. 0.00 min
Lab File: VL034557.D
Acq: 27 Jan 2020 10:31

Tgt Ion:164 Resp: 762464
Ion Ratio Lower Upper
164 100
166 121.2 95.7 143.5
129 101.8 82.2 123.2
131 104.0 81.3 121.9





#53

Toluene

Concen: 10.774 ppbv

RT: 9.84 min Scan# 2195

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

Instrument :

MSVOA_L

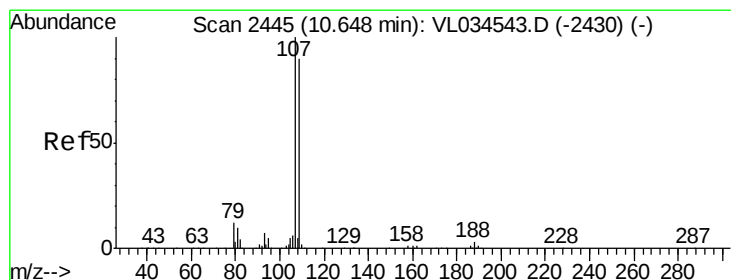
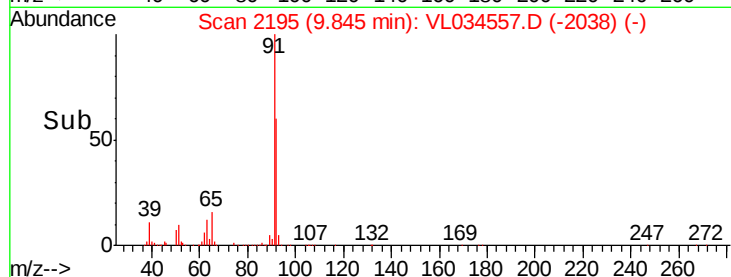
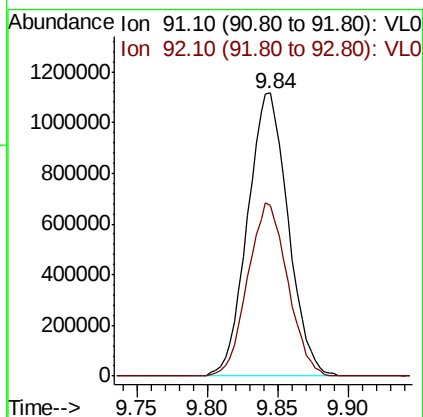
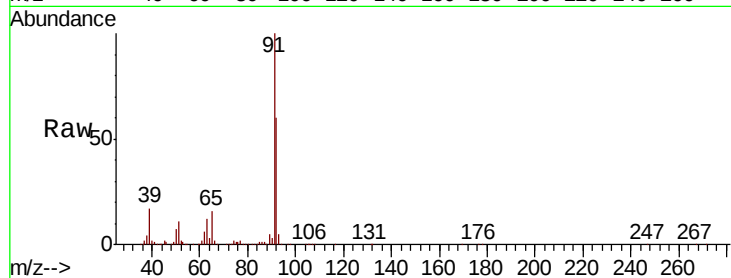
ClientSampleId :

Tot Ion: 91 Resp: 2244236

Ion Ratio Lower Upper

91 100

92 60.6 48.4 72.6



#54

1,2-Dibromoethane

Concen: 10.438 ppbv

RT: 10.65 min Scan# 2446

Delta R.T. -0.00 min

Lab File: VL034557.D

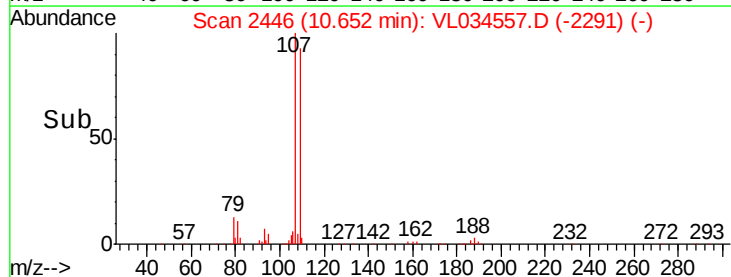
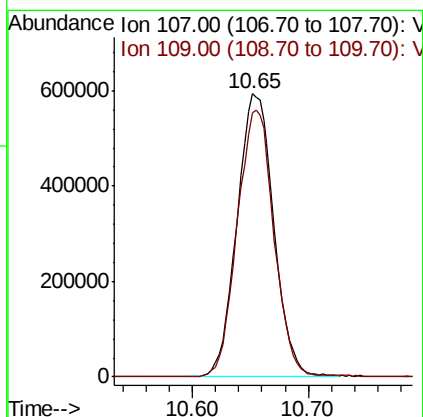
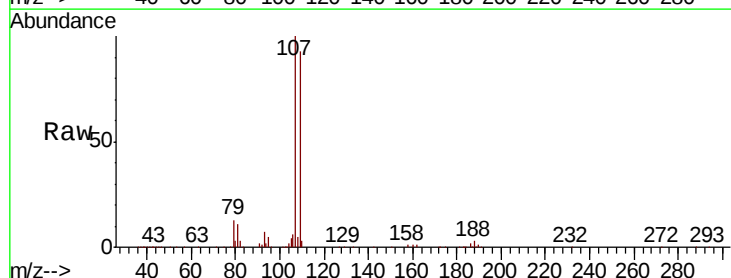
Acq: 27 Jan 2020 10:31

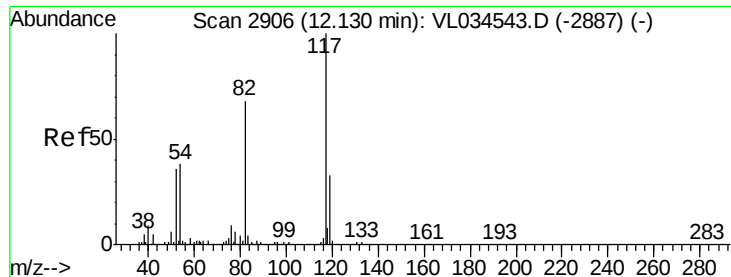
Tgt Ion: 107 Resp: 1305485

Ion Ratio Lower Upper

107 100

109 93.4 75.5 113.3

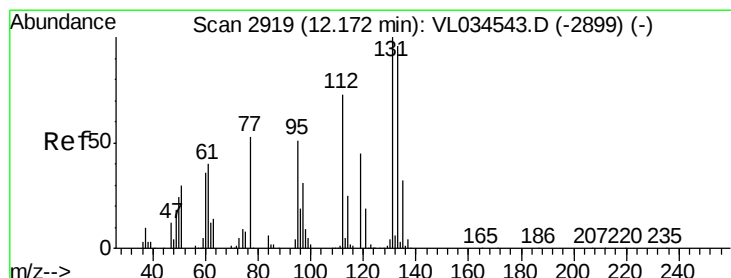
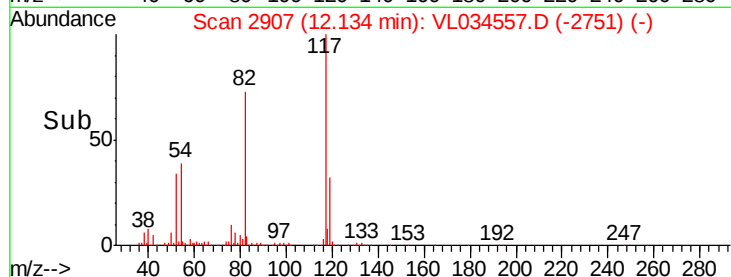
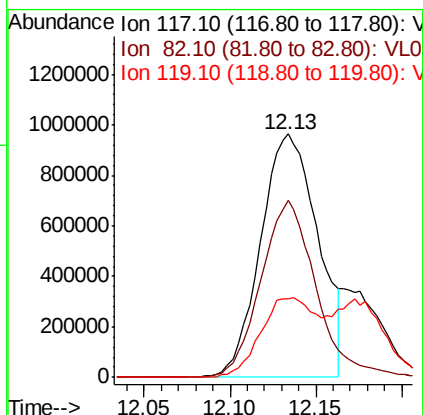
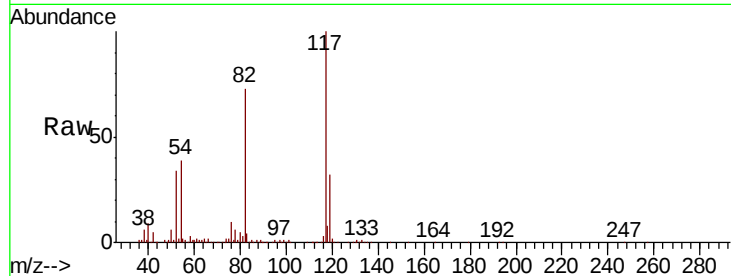




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2907
Delta R.T. 0.00 min
Lab File: VL034557.D
Acq: 27 Jan 2020 10:31

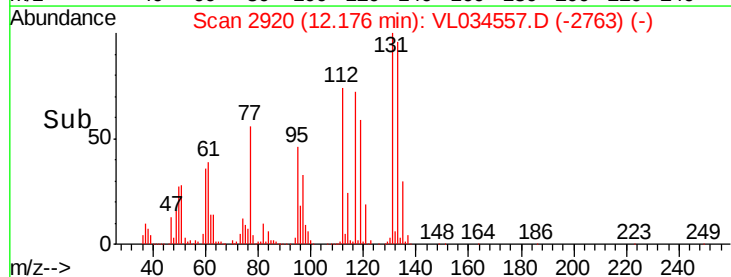
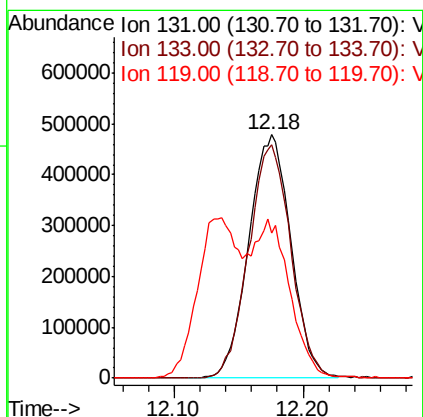
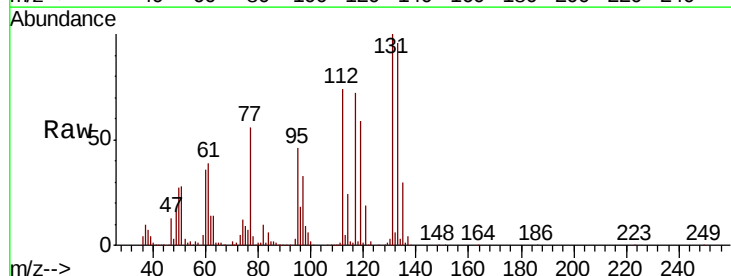
Instrument :
MSVOA_L
ClientSampleId :

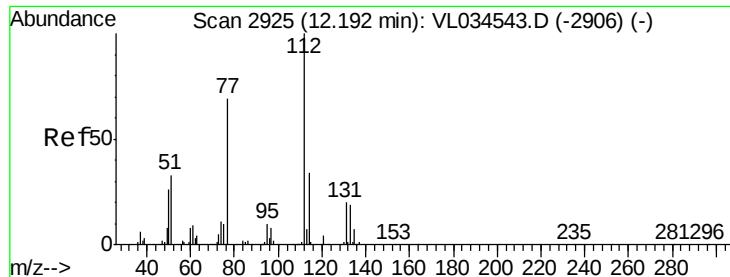
Tot Ion:117 Resp: 2224056
Ion Ratio Lower Upper
117 100
82 70.4 56.2 84.4
119 35.5 27.1 40.7



#56
1,1,1,2-Tetrachloroethane
Concen: 10.174 ppbv
RT: 12.18 min Scan# 2920
Delta R.T. 0.00 min
Lab File: VL034557.D
Acq: 27 Jan 2020 10:31

Tgt Ion:131 Resp: 1092312
Ion Ratio Lower Upper
131 100
133 96.2 76.2 114.2
119 60.8 47.1 70.7





#57

Chlorobenzene

Concen: 9.812 ppbv

RT: 12.19 min Scan# 2926

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

Instrument :

MSVOA_L

ClientSampleId :

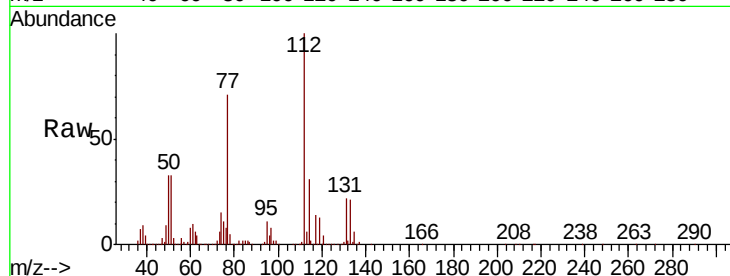
Tot Ion:112 Resp: 1800349

Ion Ratio Lower Upper

112 100

77 70.8 57.4 86.0

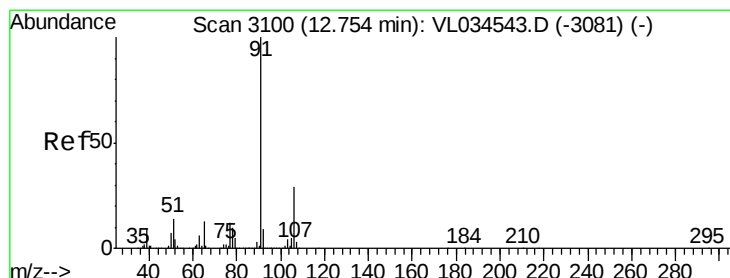
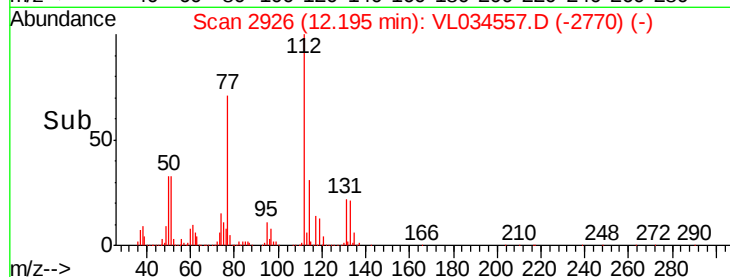
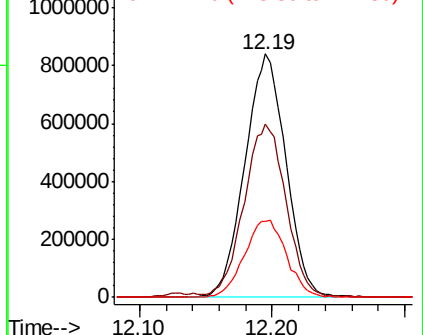
114 31.3 28.4 34.8



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.391 ppbv

RT: 12.76 min Scan# 3101

Delta R.T. 0.00 min

Lab File: VL034557.D

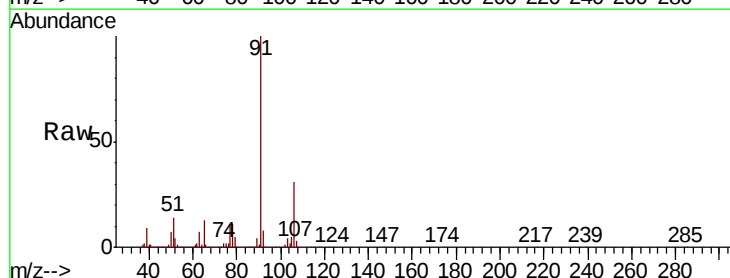
Acq: 27 Jan 2020 10:31

Tgt Ion: 91 Resp: 3116824

Ion Ratio Lower Upper

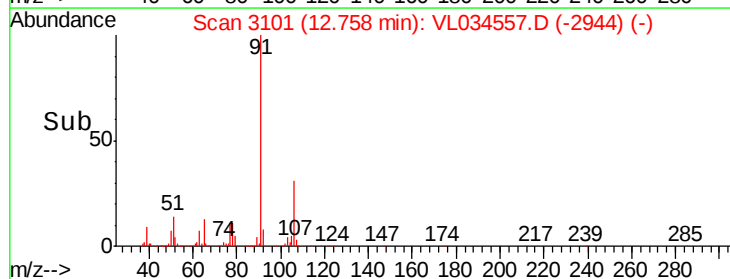
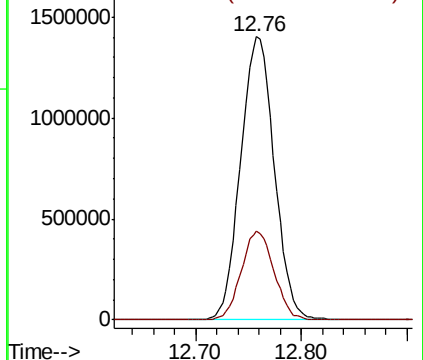
91 100

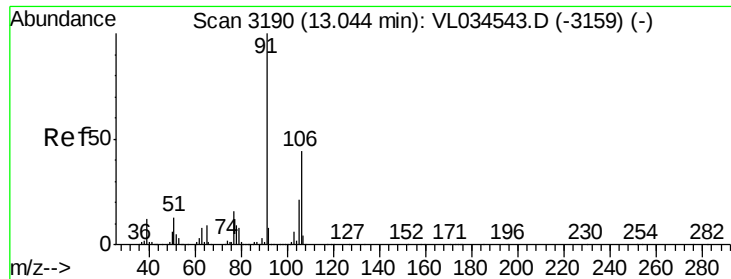
106 31.2 24.6 36.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

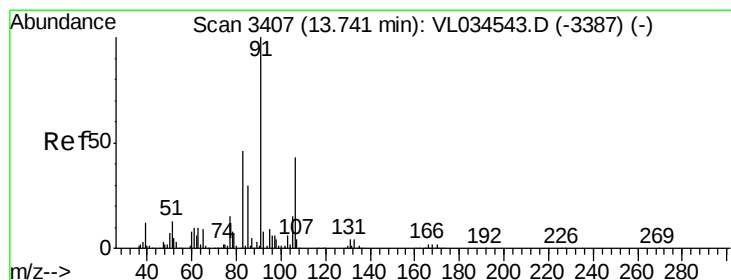
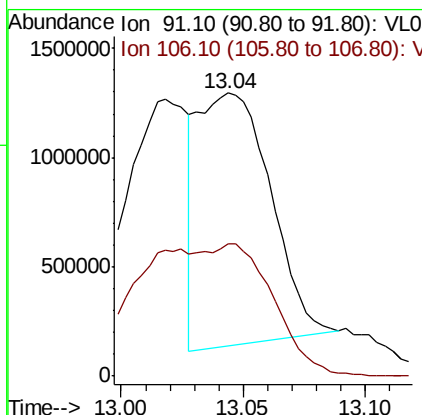
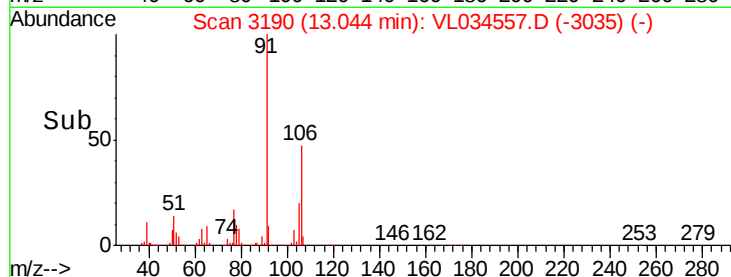
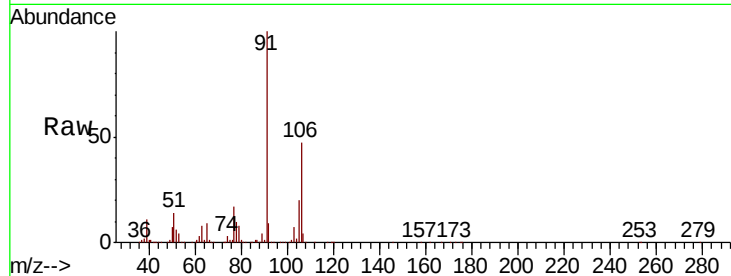




#59
m/p-Xylene
Concen: 9.006 ppbv
RT: 13.04 min Scan# 3190
Delta R.T. -0.00 min
Lab File: VL034557.D
Acq: 27 Jan 2020 10:31

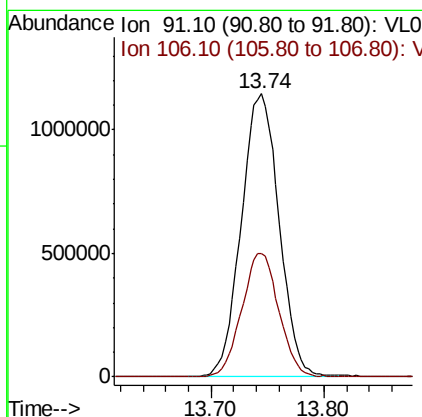
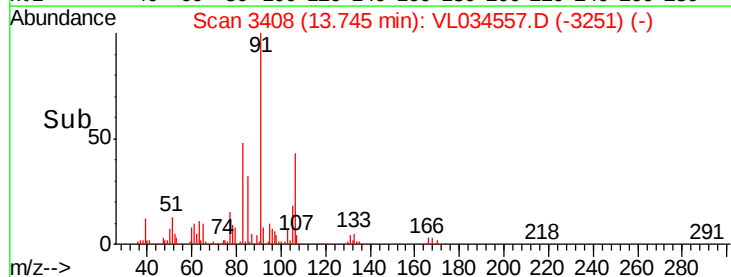
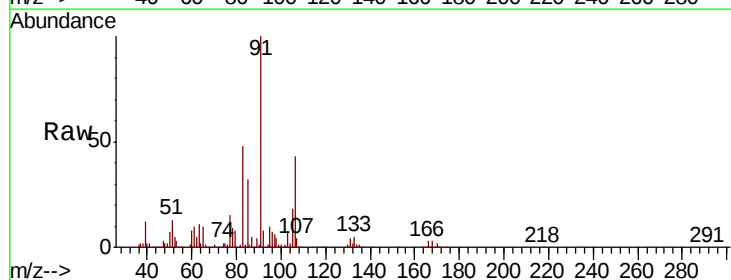
Instrument :
MSVOA_L
ClientSampled :

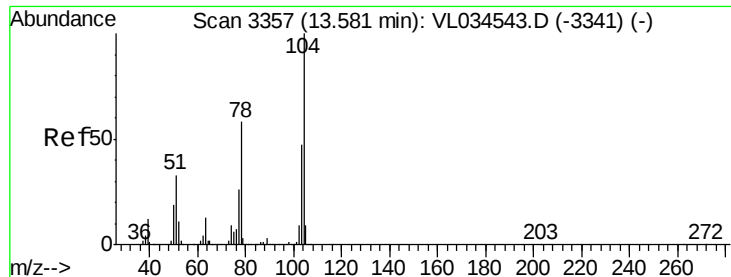
Tot Ion: 91 Resp: 2362106
Ion Ratio Lower Upper
91 100
106 100.0 35.6 53.4#



#60
o-Xylene
Concen: 10.126 ppbv
RT: 13.74 min Scan# 3408
Delta R.T. 0.00 min
Lab File: VL034557.D
Acq: 27 Jan 2020 10:31

Tgt Ion: 91 Resp: 2664985
Ion Ratio Lower Upper
91 100
106 43.0 21.4 64.3





#61

Stvrene

Concen: 10.930 ppbv

RT: 13.58 min Scan# 3357

Delta R.T. 0.01 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

Instrument :

MSVOA_L

ClientSampleId :

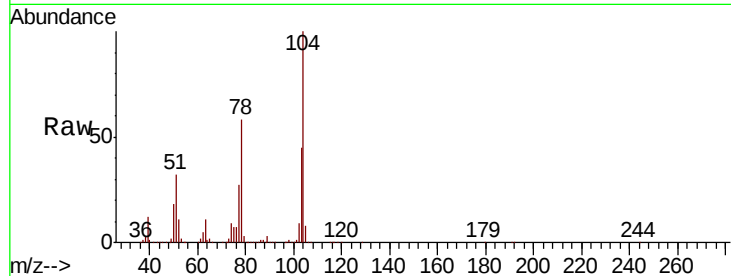
Tot Ion:104 Resp: 1966817

Ion Ratio Lower Upper

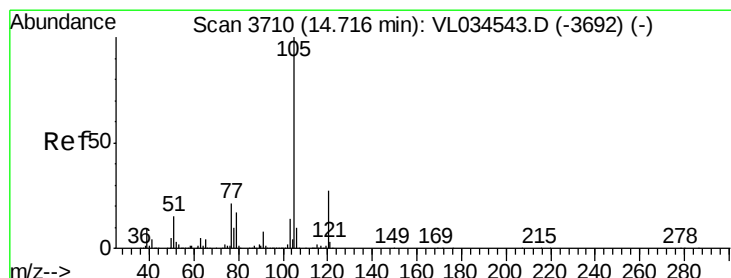
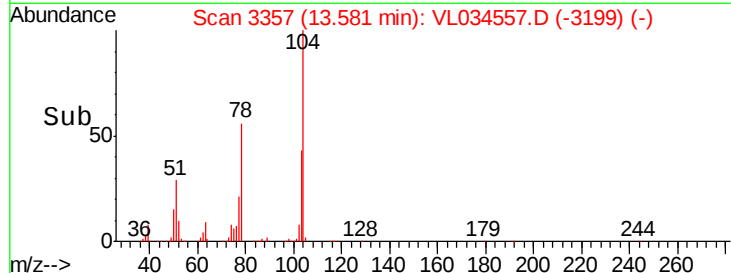
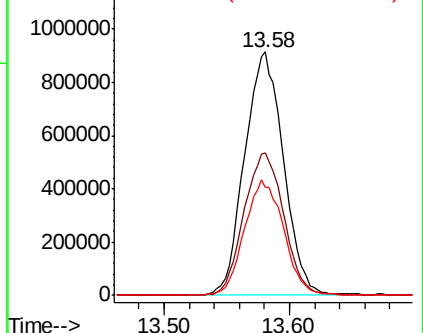
104 100

78 60.1 47.7 71.5

103 47.9 38.6 58.0



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: 10.111 ppbv

RT: 14.72 min Scan# 3712

Delta R.T. 0.00 min

Lab File: VL034557.D

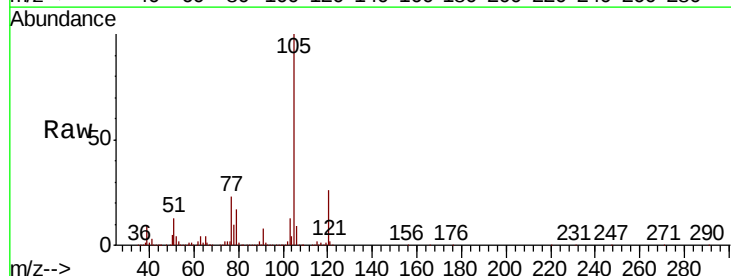
Acq: 27 Jan 2020 10:31

Tgt Ion:105 Resp: 3480901

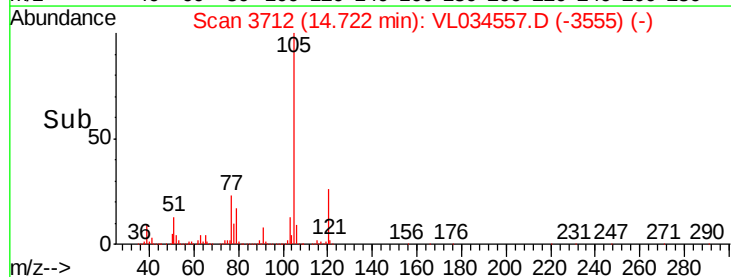
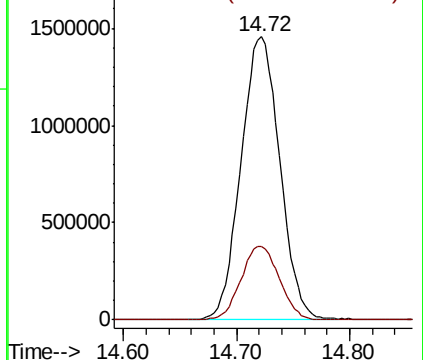
Ion Ratio Lower Upper

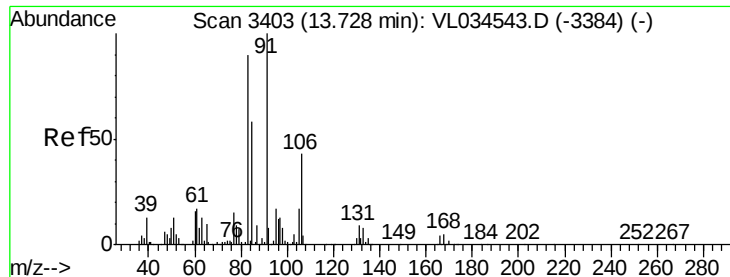
105 100

120 25.7 20.6 30.8



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: 8.904 ppbv

RT: 13.73 min Scan# 3404

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

Instrument :

MSVOA_L

ClientSampled :

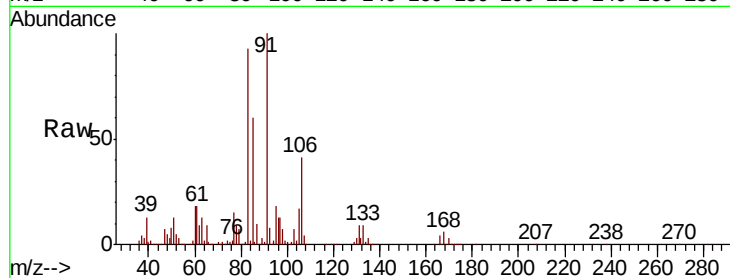
Tot Ion: 83 Resp: 1879922

Ion	Ratio	Lower	Upper
83	100		
131	10.1	4.8	14.4
85	66.5	32.5	97.4

83 100

131 10.1 4.8 14.4

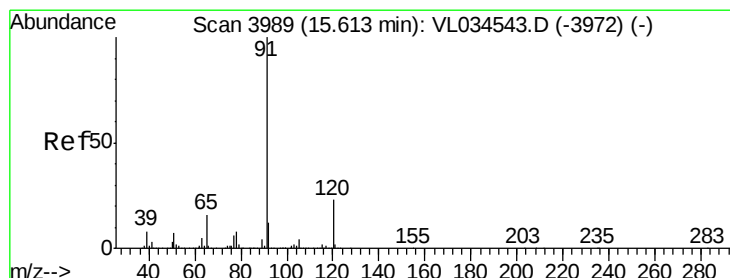
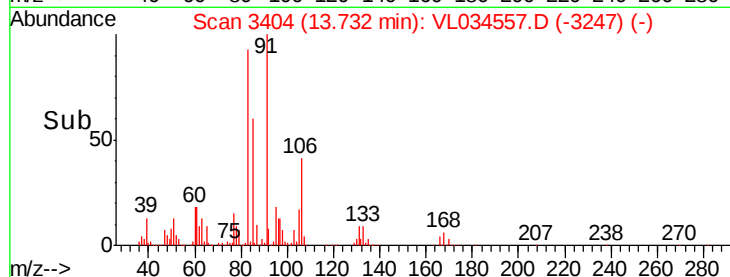
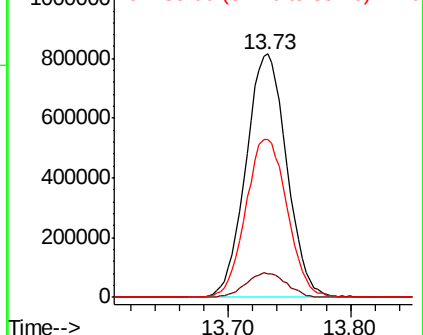
85 66.5 32.5 97.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 10.297 ppbv

RT: 15.62 min Scan# 3991

Delta R.T. 0.00 min

Lab File: VL034557.D

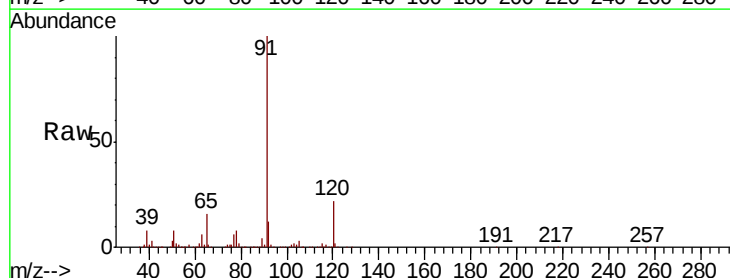
Acq: 27 Jan 2020 10:31

Tgt Ion:120 Resp: 905220

Ion	Ratio	Lower	Upper
120	100		
91	470.1	375.6	563.4

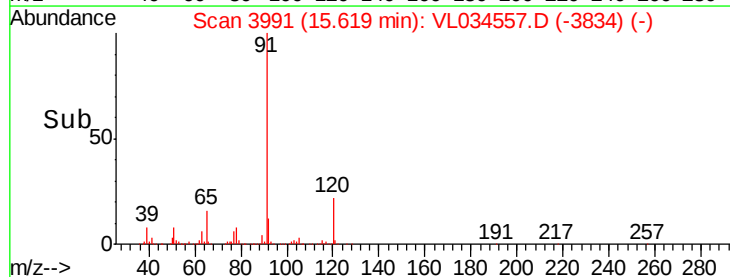
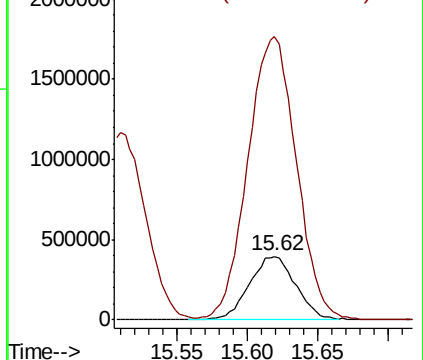
120 100

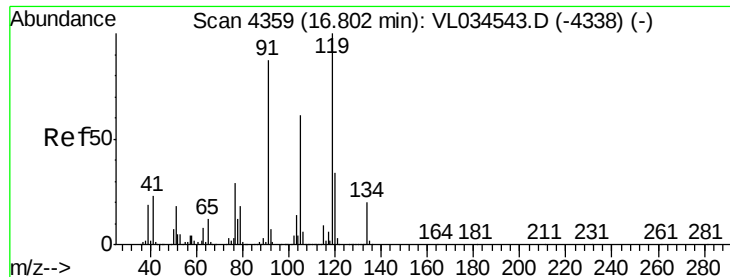
91 470.1 375.6 563.4



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 10.186 ppbv

RT: 16.81 min Scan# 4360

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

Instrument :

MSVOA_L

ClientSampleId :

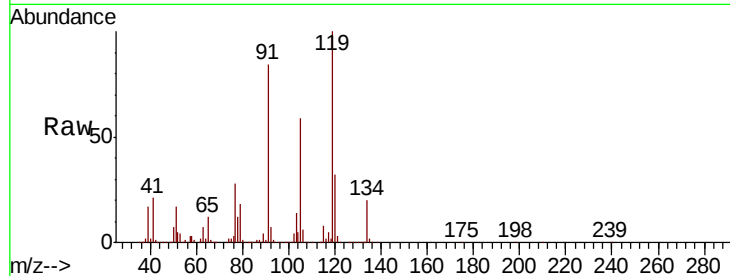
Tot Ion:119 Resp: 3168257

Ion Ratio Lower Upper

119 100

91 89.8 72.0 108.0

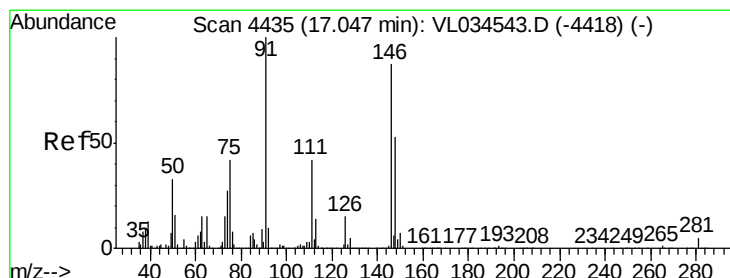
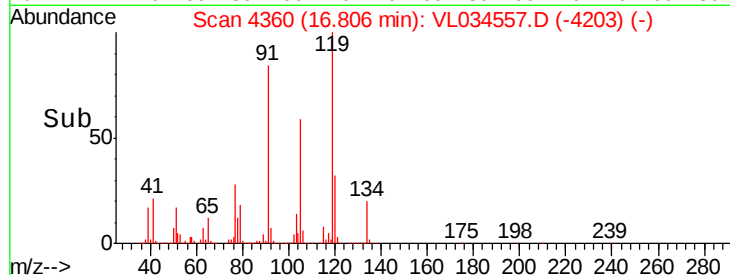
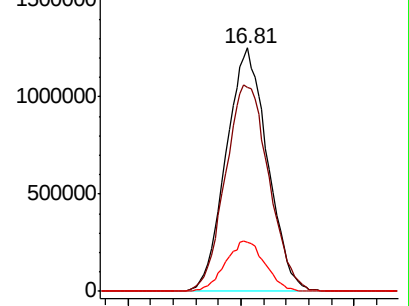
134 19.9 16.1 24.1



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: 12.169 ppbv

RT: 17.05 min Scan# 4437

Delta R.T. 0.01 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

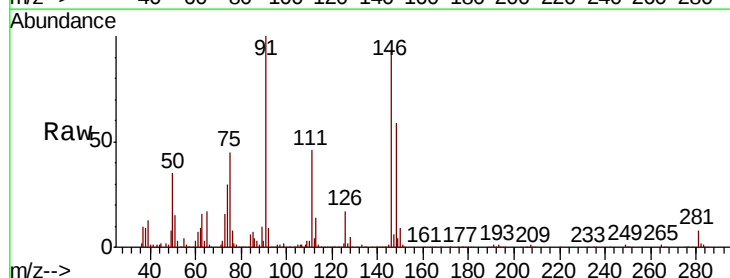
Tgt Ion: 91 Resp: 1658820

Ion Ratio Lower Upper

91 100

126 16.9 13.1 19.7

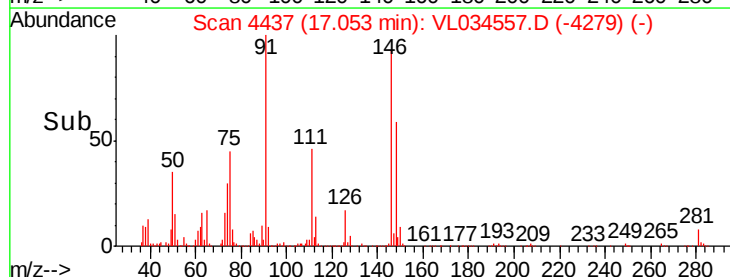
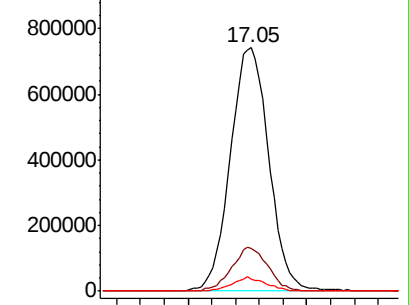
128 5.1 4.2 6.4

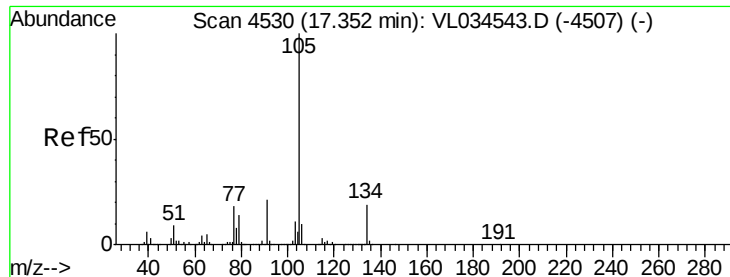


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.837 ppbv

RT: 17.36 min Scan# 4531

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

Instrument :

MSVOA_L

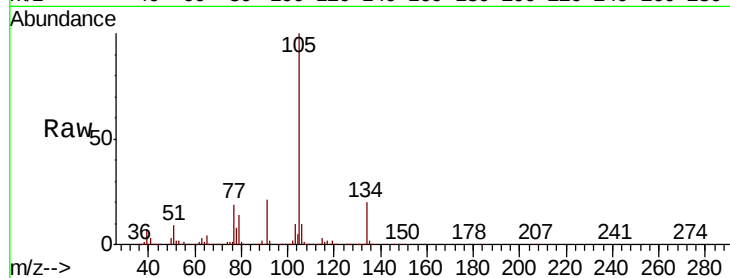
ClientSampleId :

Tot Ion:105 Resp: 4296656

Ion Ratio Lower Upper

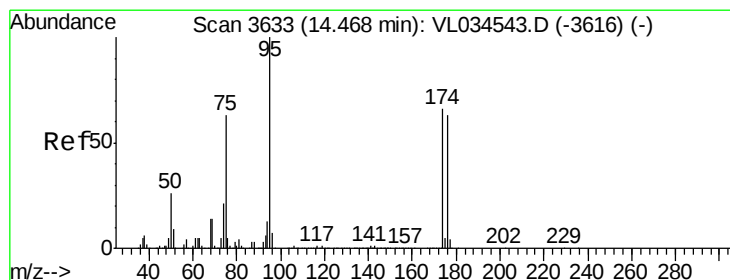
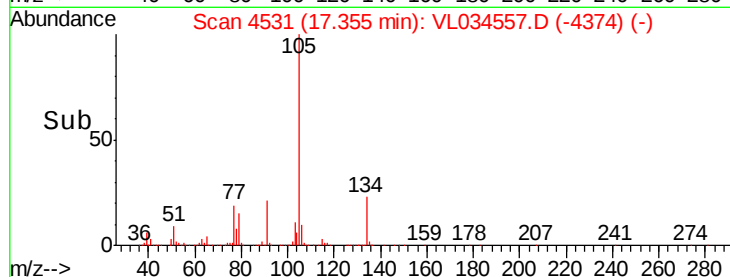
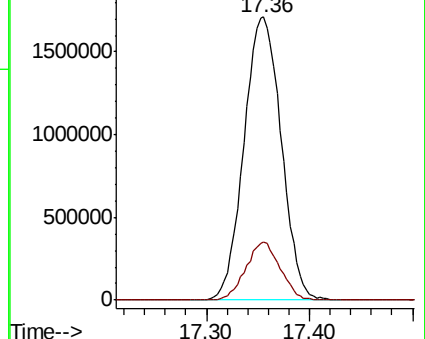
105 100

134 19.0 15.1 22.7



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: 10.051 ppbv

RT: 14.47 min Scan# 3634

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

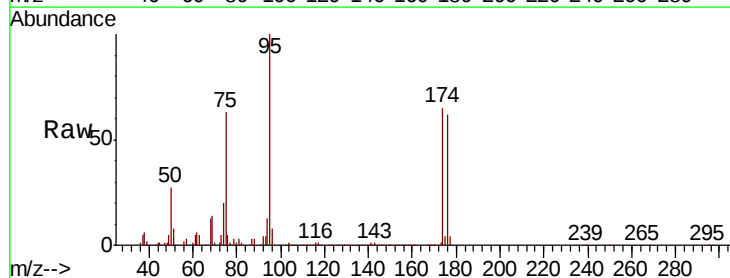
Tgt Ion: 95 Resp: 1865256

Ion Ratio Lower Upper

95 100

174 64.8 52.4 78.6

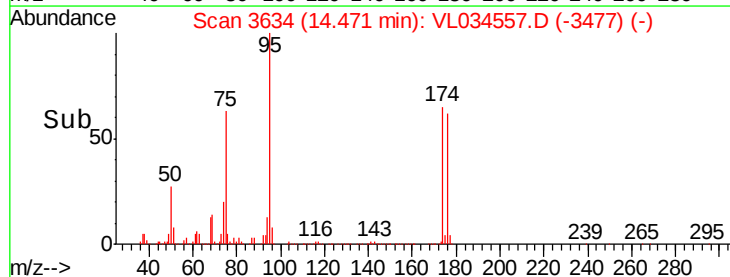
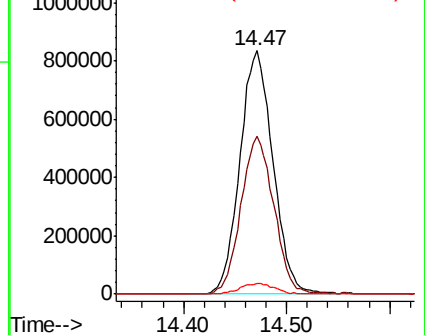
175 4.6 3.9 5.9

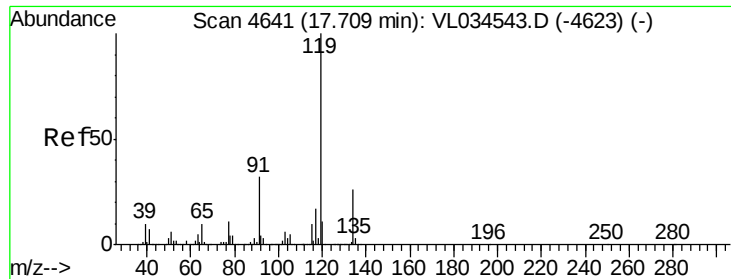


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 10.220 ppbv

RT: 17.71 min Scan# 4642

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

Instrument :

MSVOA_L

ClientSampleId :

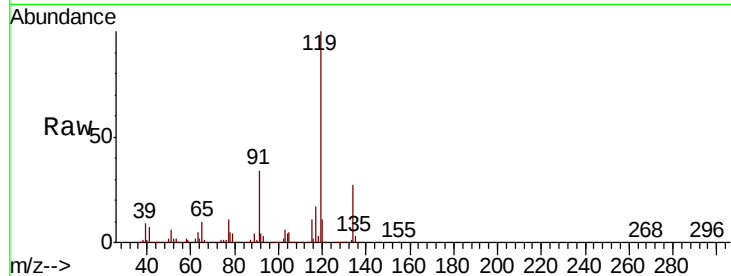
Tot Ion:119 Resp: 3620598

Ion Ratio Lower Upper

119 100

134 26.1 20.7 31.1

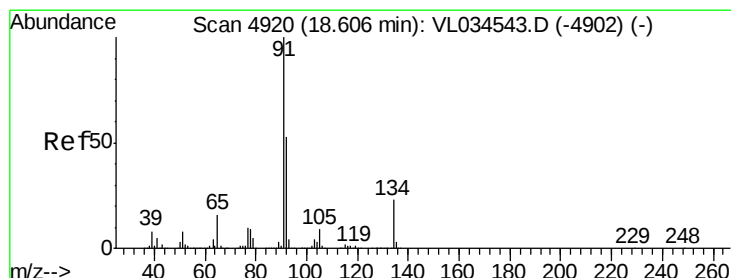
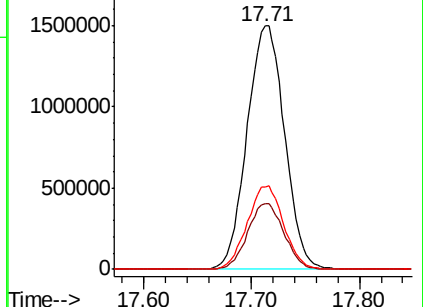
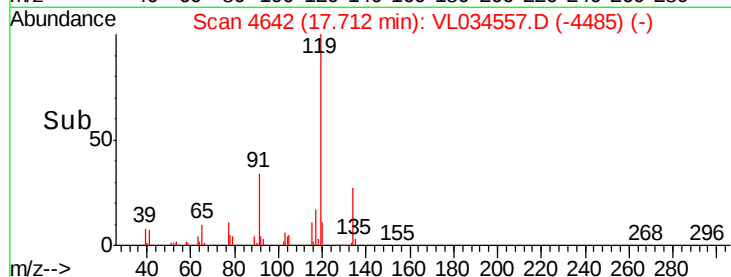
91 33.5 26.6 39.8



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: 9.767 ppbv

RT: 18.61 min Scan# 4922

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

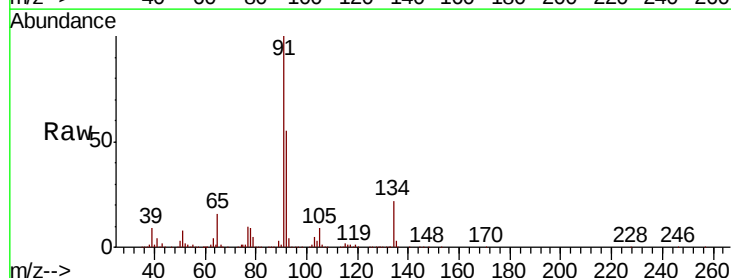
Tgt Ion: 91 Resp: 3733440

Ion Ratio Lower Upper

91 100

92 54.5 43.8 65.6

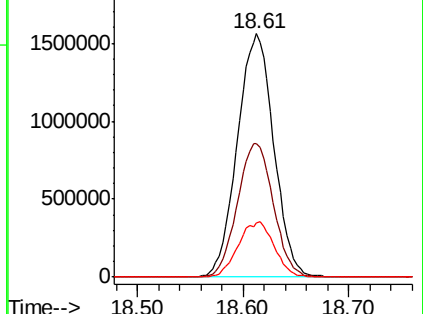
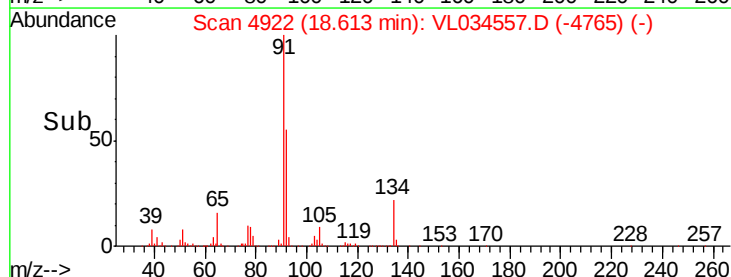
134 22.5 18.0 27.0

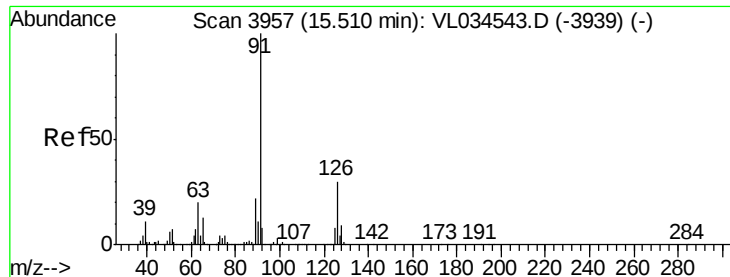


Abundance Ion 91.10 (90.80 to 91.80): V

Ion 92.10 (91.80 to 92.80): V

Ion 134.20 (133.90 to 134.90): V

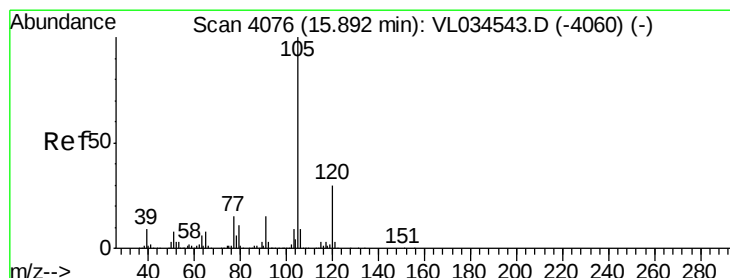
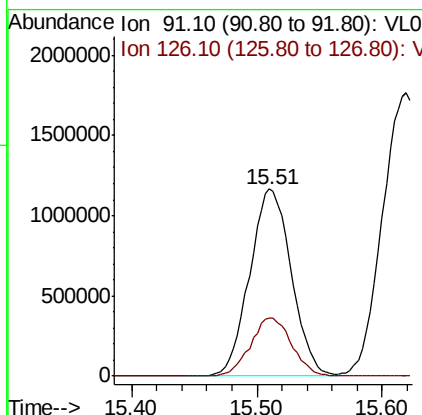
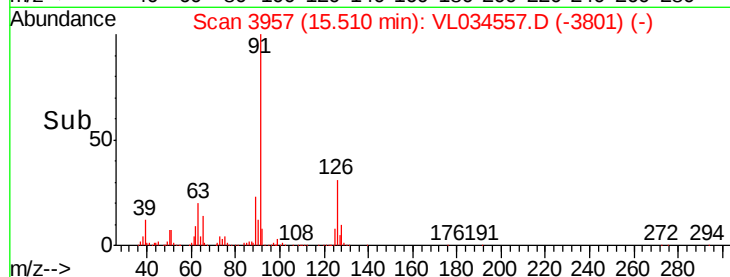
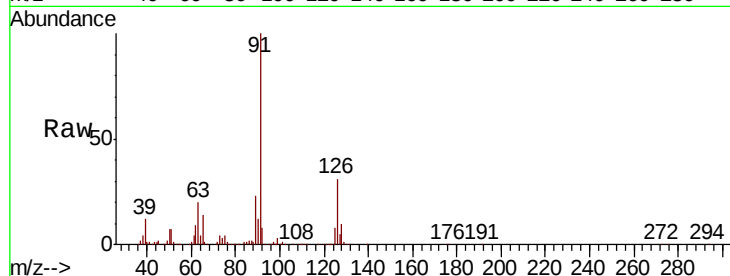




#71
 2-Chlorotoluene
 Concen: 10.099 ppbv
 RT: 15.51 min Scan# 3957
 Delta R.T. 0.00 min
 Lab File: VL034557.D
 Acq: 27 Jan 2020 10:31

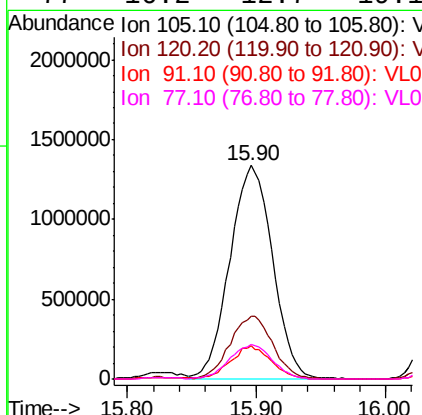
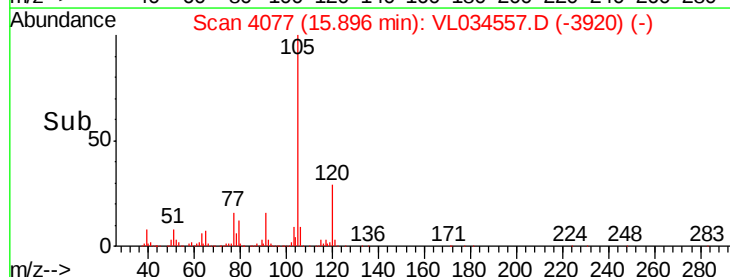
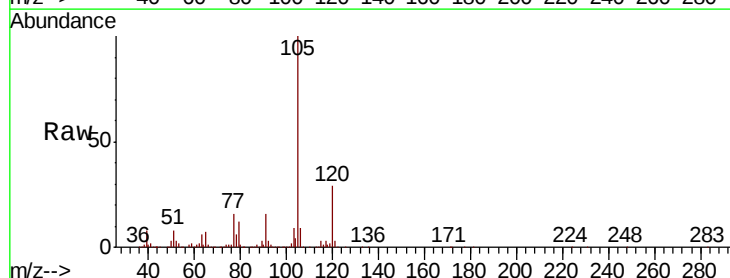
Instrument :
 MSVOA_L
 ClientSampleId :

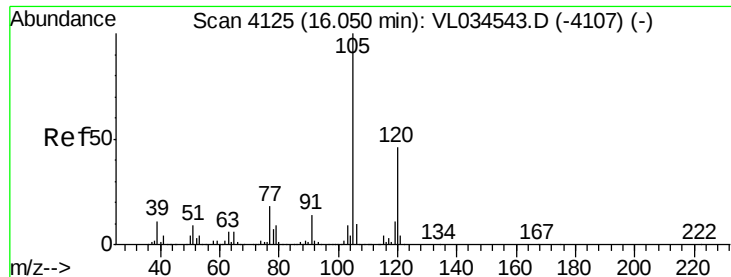
Tot Ion: 91 Resp: 2700019
 Ion Ratio Lower Upper
 91 100
 126 30.6 12.0 47.8



#72
 4-Ethyltoluene
 Concen: 10.435 ppbv
 RT: 15.90 min Scan# 4077
 Delta R.T. 0.00 min
 Lab File: VL034557.D
 Acq: 27 Jan 2020 10:31

Tgt Ion: 105 Resp: 3073315
 Ion Ratio Lower Upper
 105 100
 120 29.6 23.7 35.5
 91 14.6 11.5 17.3
 77 16.2 12.7 19.1





#73

1,3,5-Trimethylbenzene

Concen: 10.135 ppbv

RT: 16.05 min Scan# 4126

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

Instrument :

MSVOA_L

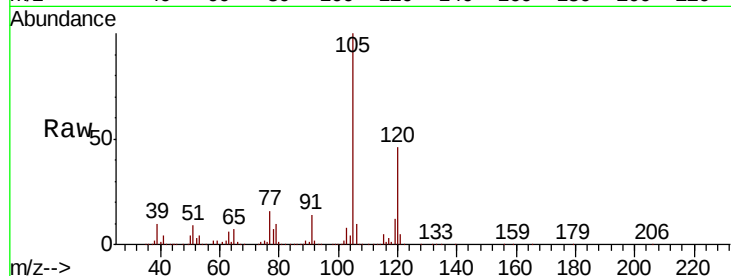
ClientSampleId :

Tot Ion:105 Resp: 2928465

Ion Ratio Lower Upper

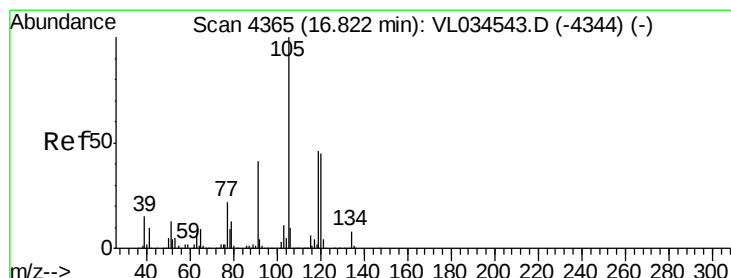
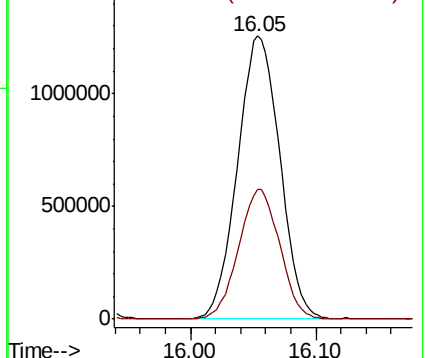
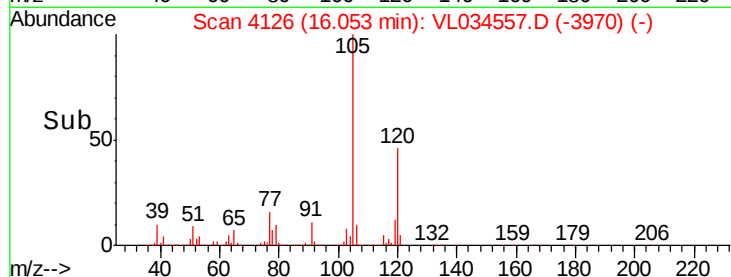
105 100

120 45.9 34.6 52.0



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: 9.869 ppbv

RT: 16.82 min Scan# 4366

Delta R.T. 0.01 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

Tgt Ion:105 Resp: 3050565

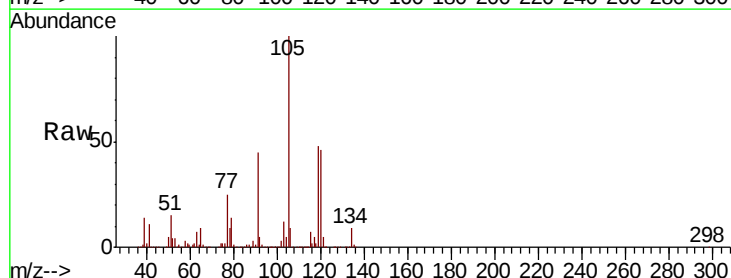
Ion Ratio Lower Upper

105 100

120 46.3 36.7 55.1

91 45.0 44.0 66.0

77 24.9 19.9 29.9

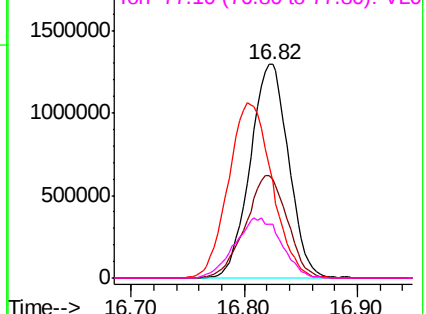
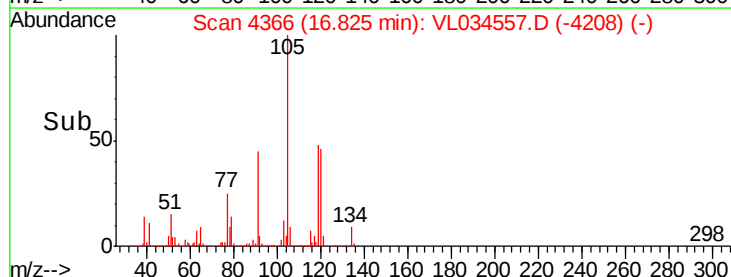


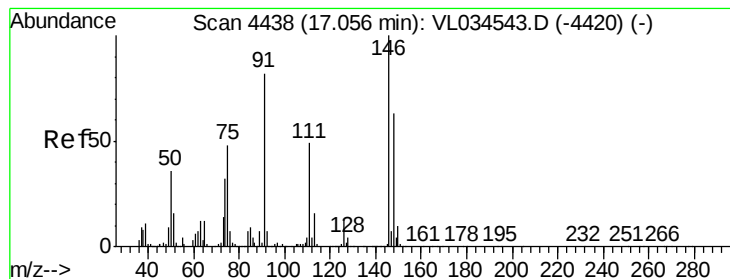
Abundance Ion 105.10 (104.80 to 105.80): V

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: 9.425 ppbv

RT: 17.06 min Scan# 4438

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

Instrument :

MSVOA_L

ClientSampleId :

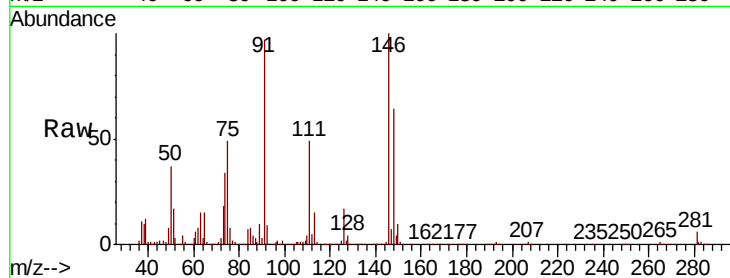
Tot Ion:146 Resp: 1744942

Ion Ratio Lower Upper

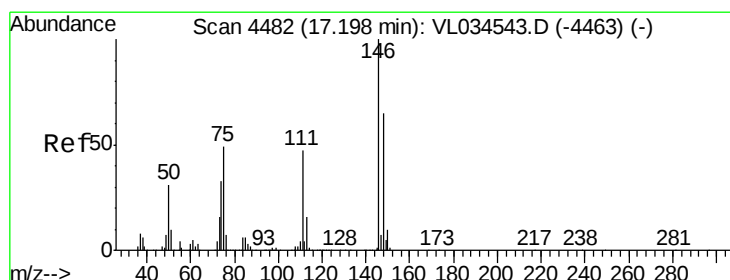
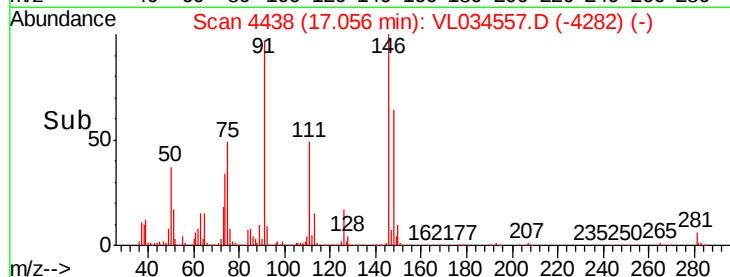
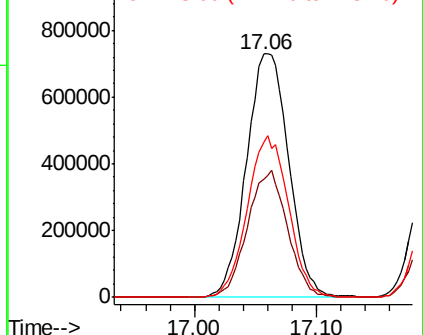
146 100

111 49.5 25.1 75.3

148 64.8 33.0 99.0



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: 9.754 ppbv

RT: 17.20 min Scan# 4484

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

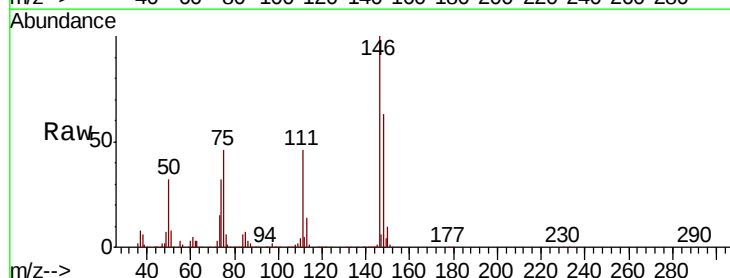
Tgt Ion:146 Resp: 1738653

Ion Ratio Lower Upper

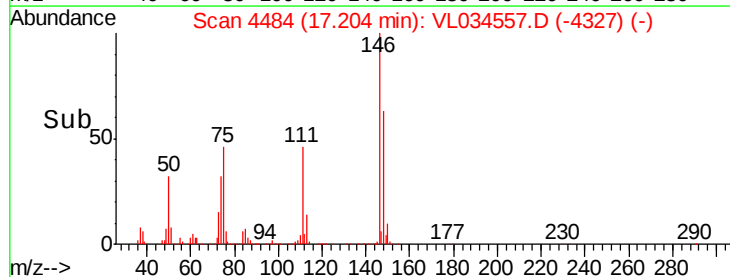
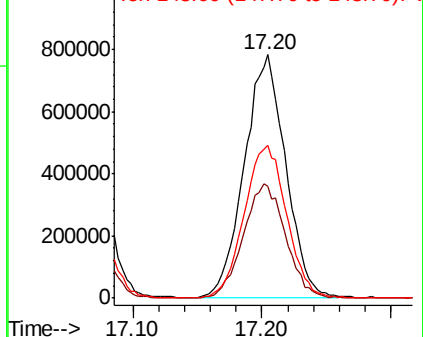
146 100

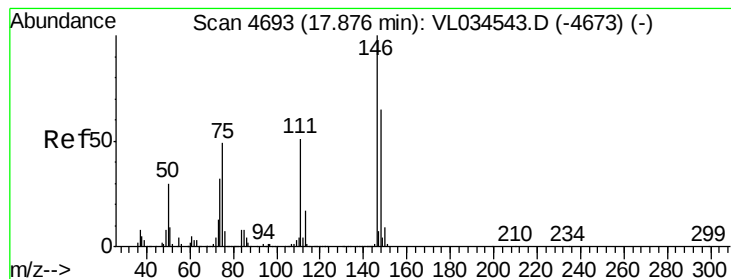
111 48.2 23.5 70.6

148 65.1 32.1 96.3



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: 9.592 ppbv

RT: 17.88 min Scan# 4694

Delta R.T. 0.00 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

Instrument :

MSVOA_L

ClientSampled :

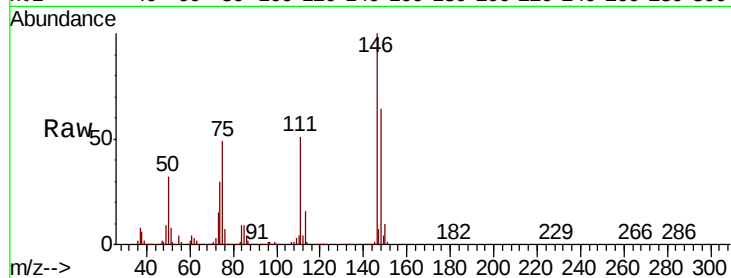
Tot Ion:146 Resp: 1668816

Ion Ratio Lower Upper

146 100

111 50.6 25.3 75.8

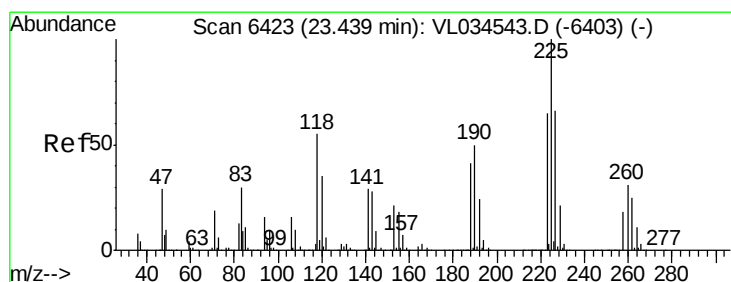
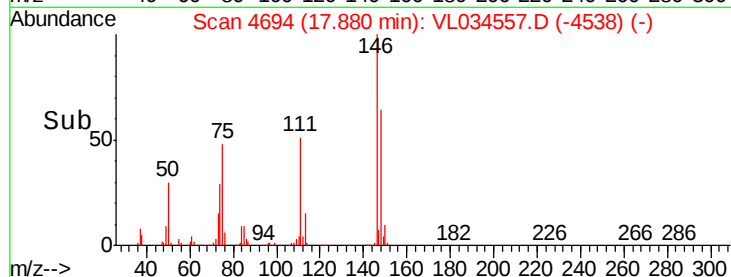
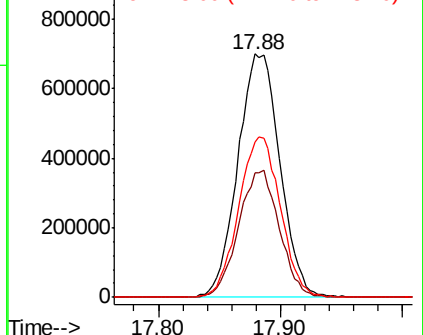
148 65.7 32.1 96.3



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: 9.650 ppbv

RT: 23.45 min Scan# 6426

Delta R.T. 0.01 min

Lab File: VL034557.D

Acq: 27 Jan 2020 10:31

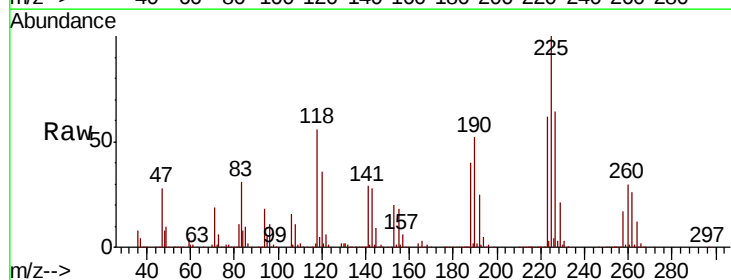
Tgt Ion:225 Resp: 1593693

Ion Ratio Lower Upper

225 100

223 62.8 51.0 76.6

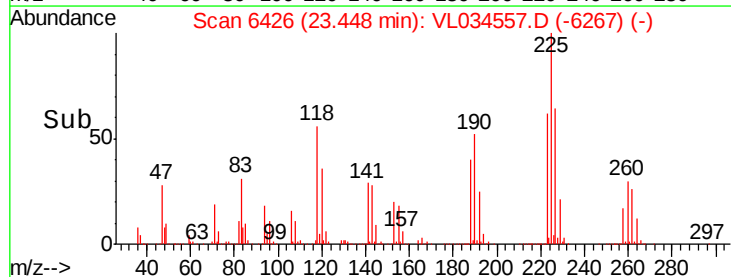
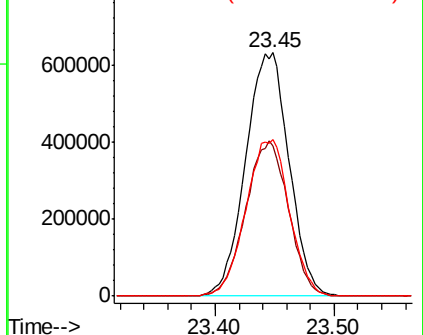
227 64.6 51.8 77.6

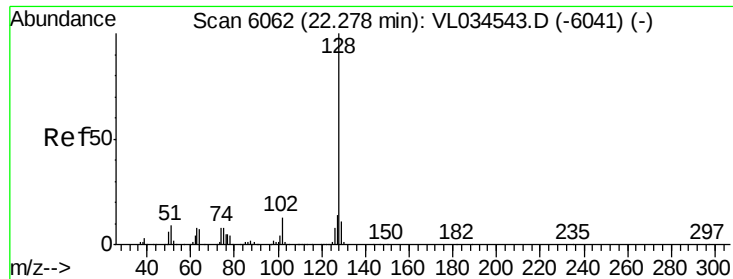


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V

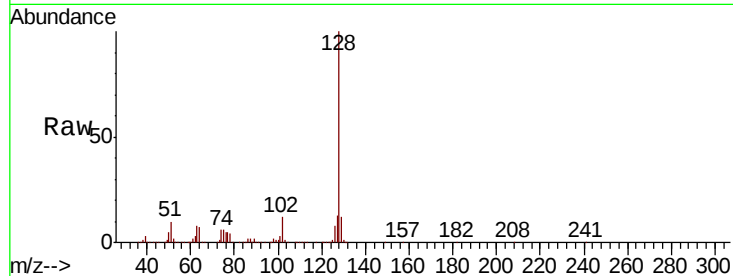




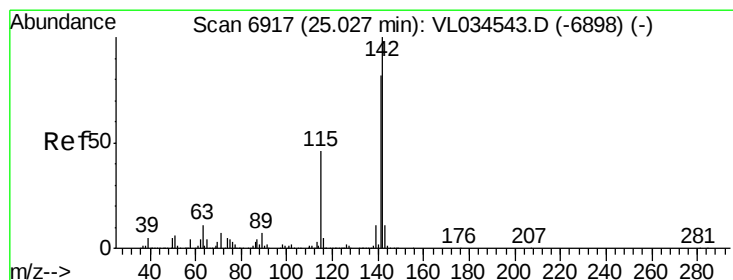
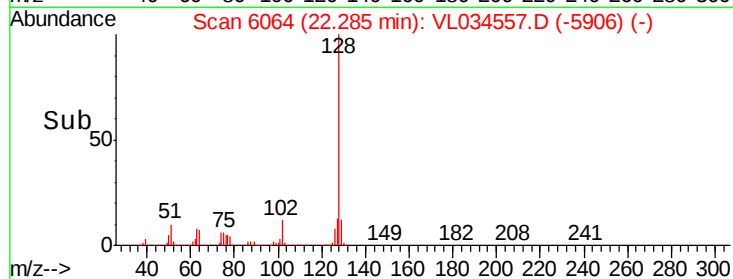
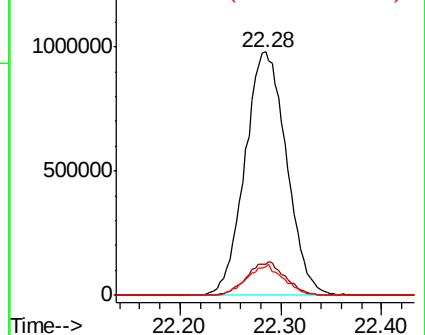
#79
Naphthalene
Concen: 12.013 ppbv
RT: 22.28 min Scan# 6064
Delta R.T. 0.01 min
Lab File: VL034557.D
Acq: 27 Jan 2020 10:31

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:128 Resp: 2796900
Ion Ratio Lower Upper
128 100
127 12.8 10.6 15.8
129 11.7 8.7 13.1

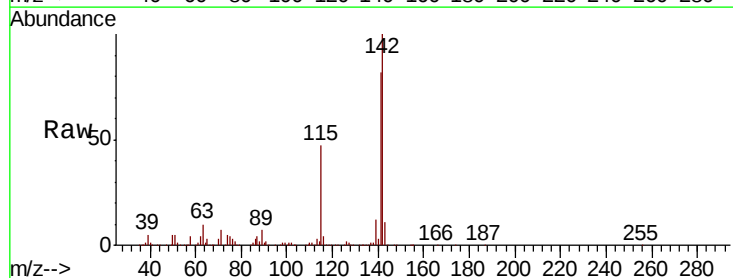


Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V

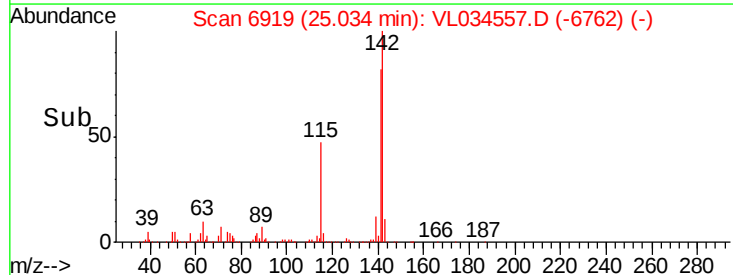
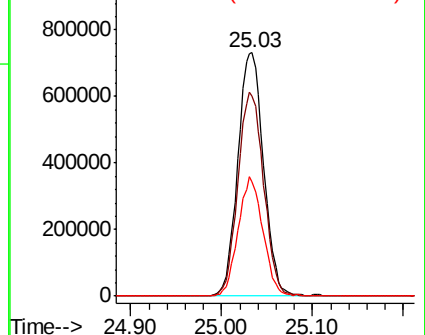


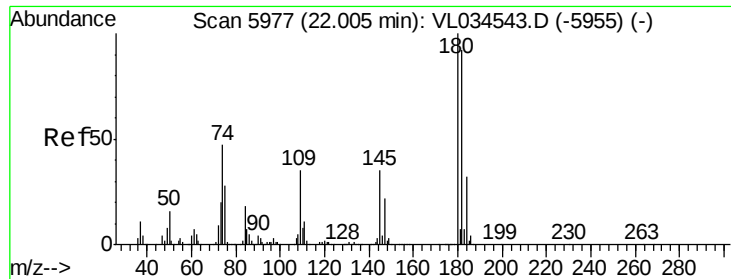
#80
Naphthalene, 2-methyl-
Concen: 22.272 ppbv
RT: 25.03 min Scan# 6919
Delta R.T. 0.00 min
Lab File: VL034557.D
Acq: 27 Jan 2020 10:31

Tgt Ion:142 Resp: 1436393
Ion Ratio Lower Upper
142 100
141 84.0 65.8 98.8
115 47.2 30.4 45.6#



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V

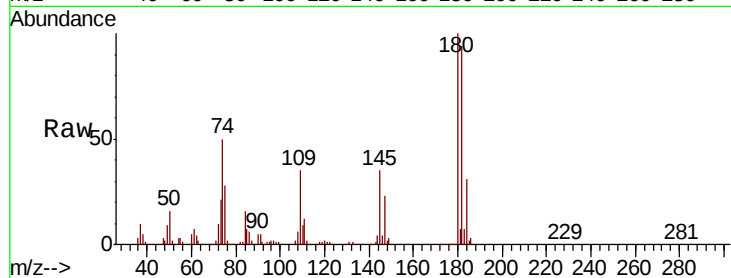




#81
 1,2,4-Trichlorobenzene
 Concen: 11.106 ppbv
 RT: 22.01 min Scan# 5979
 Delta R.T. 0.00 min
 Lab File: VL034557.D
 Acq: 27 Jan 2020 10:31

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:180 Resp: 1683523
 Ion Ratio Lower Upper
 180 100
 182 96.3 77.8 116.8
 184 31.5 25.2 37.8



Abundance Ion 180.00 (179.70 to 180.70): V
 800000 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V

