

Data File : VL034300.D
Acq On : 16 Oct 2019 14:11
Operator : SY/AP
Sample : VSTDIC001
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Quant Time: Oct 16 16:56:12 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101619AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Oct 16 16:52:05 2019
QLast Update : Wed Oct 16 16:52:05 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1212073	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	2296474	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.15	117	2322712	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1998817	9.90	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.03	85	188692	1.054	ppbv	95
3) Chlorodifluoromethane	2.97	51	149308	1.051	ppbv	99
4) Chloromethane	3.12	50	85704	1.026	ppbv	95
5) Vinyl Chloride	3.24	62	74091	0.971	ppbv	97
6) Bromomethane	3.46	94	39459	1.108	ppbv	99
7) Chloroethane	3.55	64	27493	1.031	ppbv	99
8) Dichlorotetrafluoroethane	3.17	85	195437	1.237	ppbv	95
9) Propene	2.99	41	61968	0.884	ppbv	96
10) Heptane	8.17	43	162001	0.887	ppbv	95
11) Trichlorofluoromethane	3.94	101	206051	1.264	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.49	101	131431	1.232	ppbv	98
13) Ethanol	3.60	45	23184	1.365	ppbv	100
14) Bromoethene	3.73	108	50048	1.148	ppbv	95
15) Acetone	3.85	43	192256	1.183	ppbv	98
16) 1,3-Butadiene	3.31	39	73706	1.040	ppbv	100
17) tert-Butyl alcohol	4.30	59	125678	1.221	ppbv	97
18) 1,1-Dichloroethene	4.29	96	55736	1.198	ppbv	95
19) Isopropyl Alcohol	3.97	45	63430	0.635	ppbv #	87
20) Methylene Chloride	4.35	84	70968	1.515	ppbv	93
21) Allyl Chloride	4.41	41	94065	1.025	ppbv	98
22) trans-1,2-Dichloroethene	4.90	96	56353	1.211	ppbv	95
23) Vinyl Acetate	5.09	43	215362	0.900	ppbv #	96
24) 1,1-Dichloroethane	5.02	63	164765	1.022	ppbv	99
25) Ethyl Acetate	5.70	43	297679	0.969	ppbv	99
26) Hexane	5.71	57	50297	0.394	ppbv #	1
27) Carbon Disulfide	4.56	76	116079	0.985	ppbv #	92
28) Methyl tert-Butyl Ether	5.05	73	192443	1.014	ppbv	96
29) Chloroform	5.77	83	196889	1.078	ppbv	92
30) Cyclohexane	7.17	84	51688	0.560	ppbv #	20
31) cis-1,2-Dichloroethene	5.56	61	125523	0.964	ppbv	89
32) 1,1,1-Trichloroethane	6.54	97	184467	1.047	ppbv	97
34) 2-Butanone	5.26	43	189013	0.806	ppbv	100
35) Carbon Tetrachloride	7.05	117	192271	1.008	ppbv	92
36) Benzene	6.92	78	228556	0.901	ppbv	98
37) 1,2-Dichloroethane	6.33	62	168878	0.936	ppbv	99
38) Trichloroethene	7.88	130	86639	0.956	ppbv	95
39) 1,2-Dichloropropane	7.65	63	95506	0.838	ppbv	87
41) Tetrahydrofuran	6.08	42	45077	0.341	ppbv #	40
42) Bromodichloromethane	7.83	83	199878	0.923	ppbv #	97
43) Methyl Methacrylate	8.05	69	37855	0.361	ppbv #	1
44) 2,2,4-Trimethylpentane	7.91	57	427395	0.875	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) t-1,3-Dichloropropene	9.33	75	94846	0.766	ppbv	94
46) cis-1,3-Dichloropropene	8.75	75	115767	0.777	ppbv	92
47) 1,1,2-Trichloroethane	9.53	97	95007	0.928	ppbv	88
48) Dibromochloromethane	10.36	129	147205	0.908	ppbv	99
49) Bromoform	13.11	173	131849	1.005	ppbv	99
50) 4-Methyl-2-Pentanone	8.80	43	273413	0.801	ppbv	97
51) 2-Hexanone	10.20	43	142957	0.499	ppbv #	67
52) Tetrachloroethene	11.29	164	55926	0.667	ppbv	88
53) Toluene	9.86	91	241544	0.871	ppbv	99
54) 1,2-Dibromoethane	10.67	107	70379	0.462	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.19	131	61511	0.594	ppbv #	19
57) Chlorobenzene	12.21	112	120472	0.596	ppbv #	89
58) Ethyl Benzene	12.77	91	344504	0.919	ppbv #	87
59) m/p-Xylene	13.06	91	286327	0.922	ppbv #	30
60) o-Xylene	13.76	91	299741	0.966	ppbv	96
61) Styrene	13.60	104	203295	0.914	ppbv	98
62) Isopropylbenzene	14.74	105	156950	0.391	ppbv #	30
63) 1,1,2,2-Tetrachloroethane	13.75	83	225857	0.887	ppbv	98
64) n-propylbenzene	15.63	120	52721	0.519	ppbv #	1
65) tert-Butylbenzene	16.82	119	181851	0.518	ppbv #	8
66) Benzyl Chloride	17.07	91	94844	0.764	ppbv #	94
67) sec-Butylbenzene	17.37	105	249856	0.498	ppbv #	61
69) p-Isopropyltoluene	17.73	119	401961	0.989	ppbv	98
70) n-Butylbenzene	18.63	91	442677	0.935	ppbv	97
71) 2-Chlorotoluene	15.53	91	297194	0.905	ppbv	98
72) 4-Ethyltoluene	15.91	105	337140	0.961	ppbv	99
73) 1,3,5-Trimethylbenzene	16.07	105	339179	1.001	ppbv	98
74) 1,2,4-Trimethylbenzene	16.84	105	177873	0.494	ppbv	96
75) 1,3-Dichlorobenzene	17.08	146	130015	0.674	ppbv #	53
76) 1,4-Dichlorobenzene	17.22	146	110549	0.559	ppbv #	39
77) 1,2-Dichlorobenzene	17.90	146	134753	0.690	ppbv #	62
78) Hexachloro-1,3-Butadiene	23.46	225	165746	1.281	ppbv	98
79) Naphthalene	22.31	128	124194	0.392	ppbv #	93
80) Naphthalene,2-methyl-	25.05	142	39729	0.270	ppbv	99
81) 1,2,4-Trichlorobenzene	22.04	180	100898	0.575	ppbv #	48

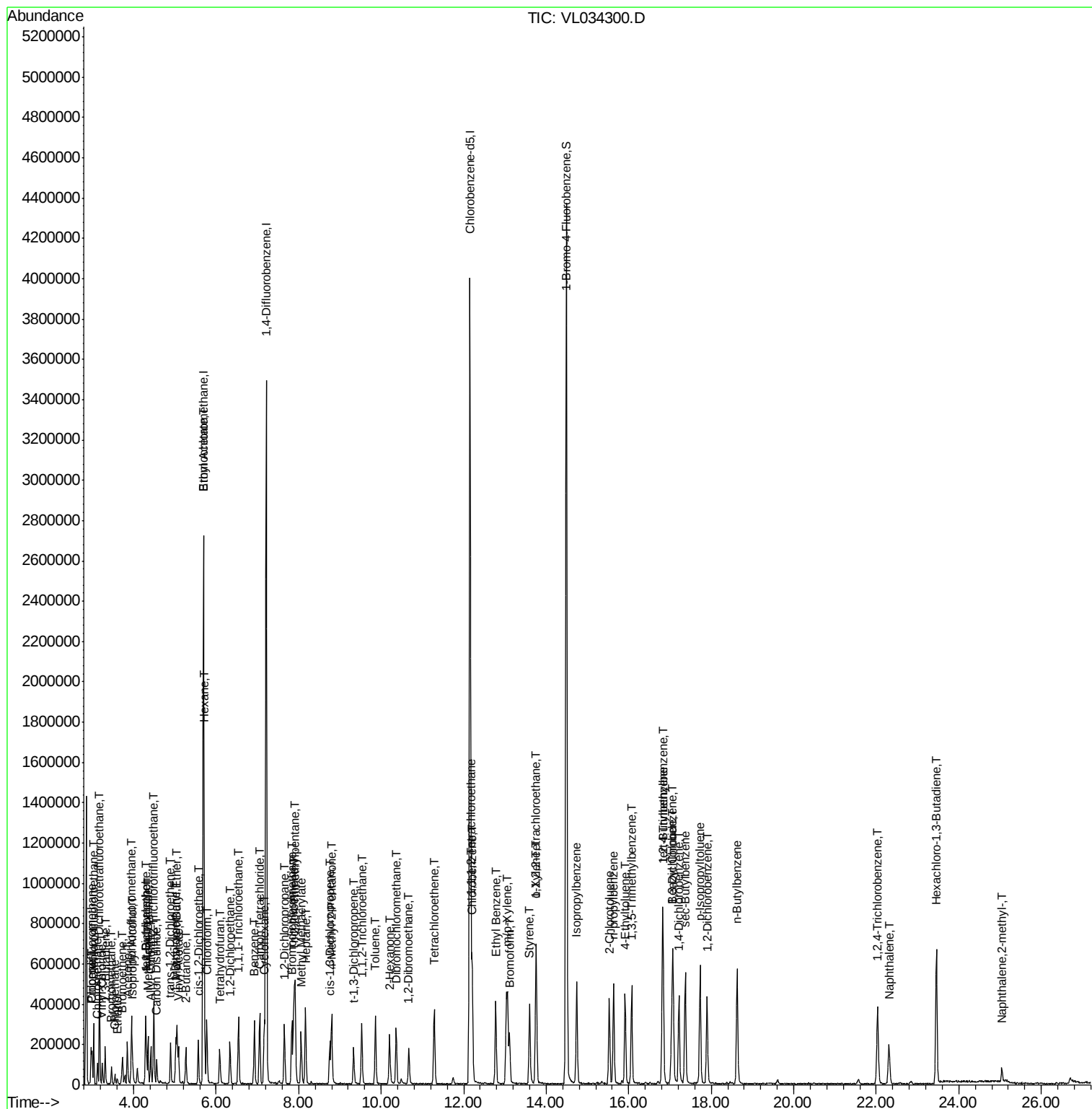
(#) = qualifier out of range (m) = manual integration (+) = signals summed

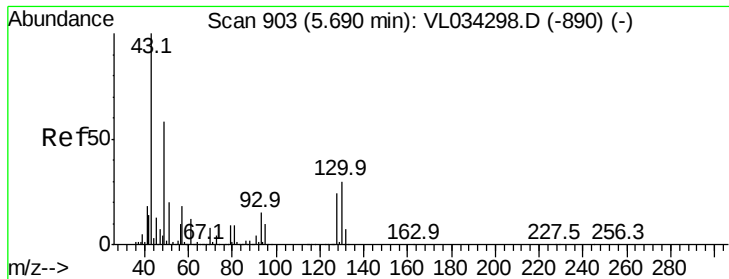
Data File : VL034300.D

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Acq On       : 16 Oct 2019  14:11
Operator    : SY/AP
Sample      : VSTDICC001
Misc       : 400ml/MSV0A_L
ALS Vial    : 1      Sample Multipl
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Instrument :
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ClientSampleId :
VSTDICC001

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

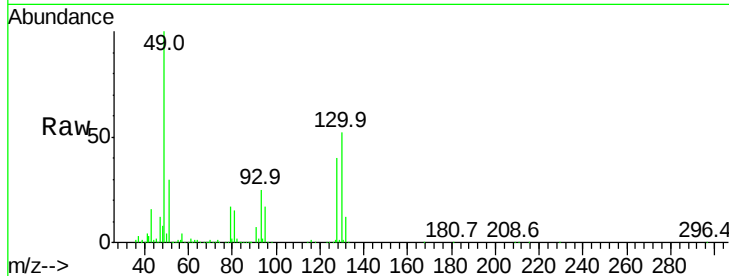
Tgt Ion: 49 Resp: 1212073

Ion Ratio Lower Upper

49 100

128 41.7 20.6 61.8

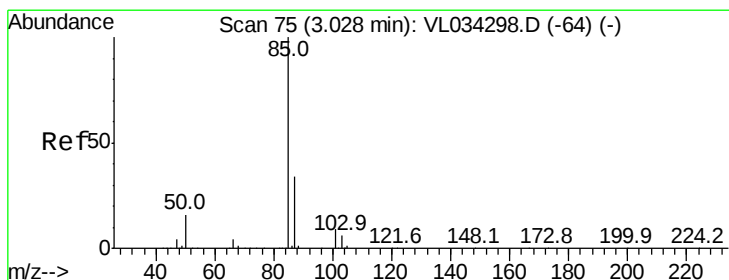
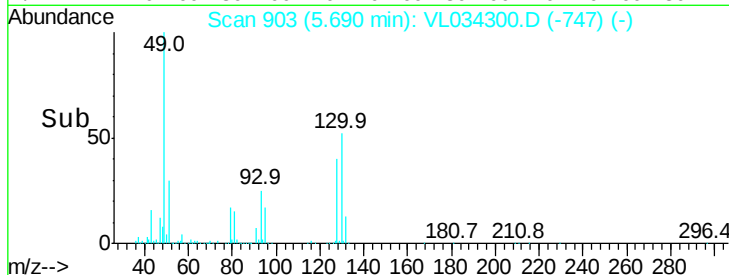
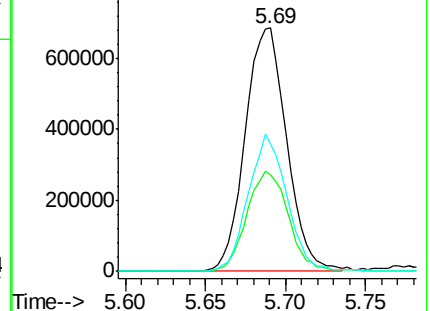
130 52.8 26.2 78.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 1.054 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.00 min

Lab File: VL034300.D

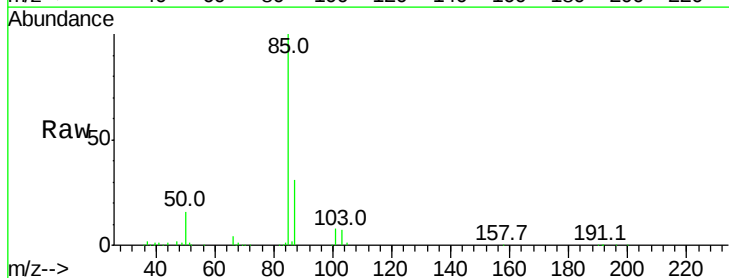
Acq: 16 Oct 2019 14:11

Tgt Ion: 85 Resp: 188692

Ion Ratio Lower Upper

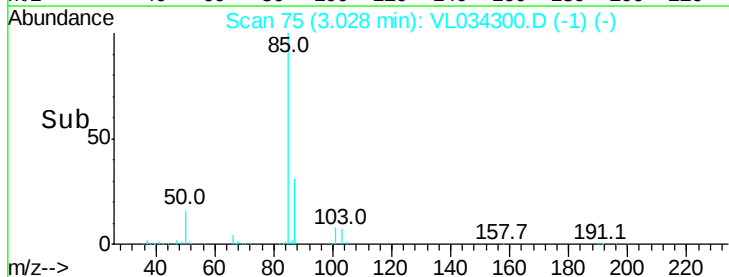
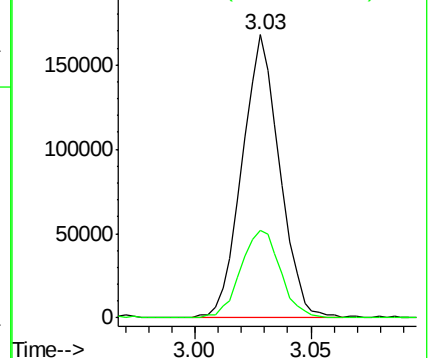
85 100

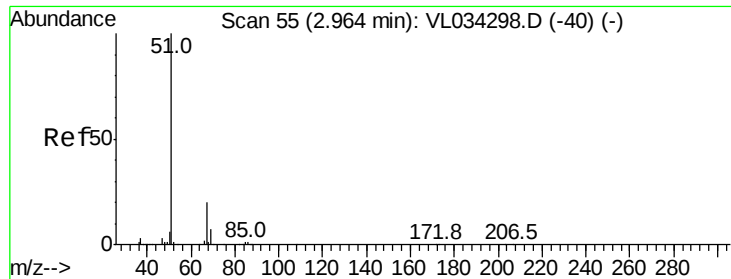
87 31.0 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.051 ppbv

RT: 2.97 min Scan# 57

Delta R.T. 0.01 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

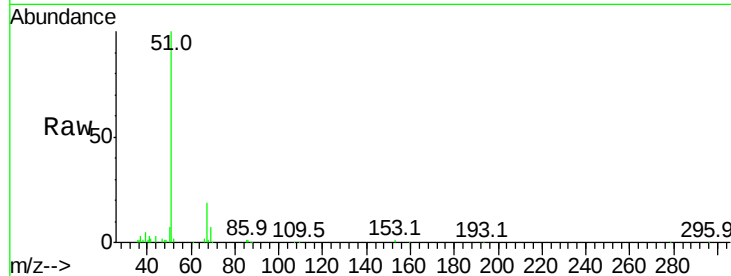
VSTDIC001

Tgt Ion: 51 Resp: 149308

Ion Ratio Lower Upper

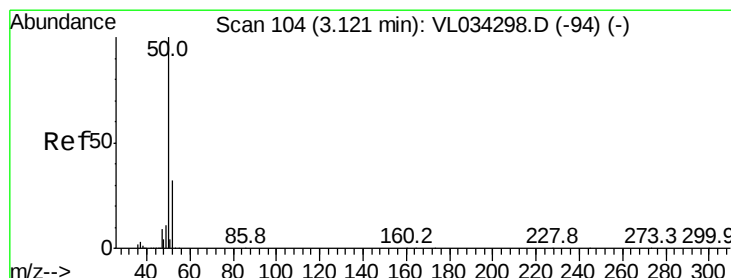
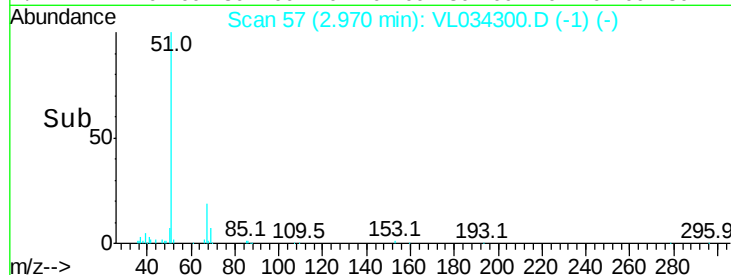
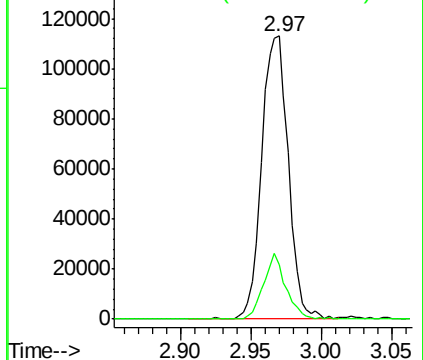
51 100

67 19.4 15.8 23.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 1.026 ppbv

RT: 3.12 min Scan# 104

Delta R.T. 0.00 min

Lab File: VL034300.D

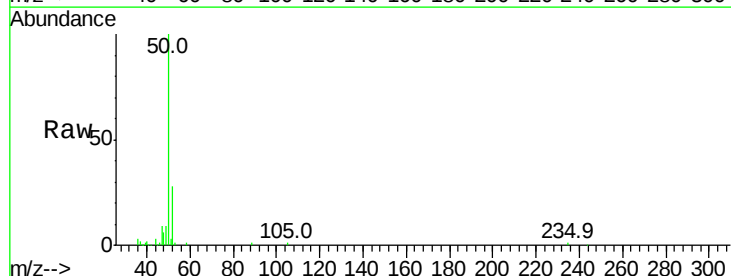
Acq: 16 Oct 2019 14:11

Tgt Ion: 50 Resp: 85704

Ion Ratio Lower Upper

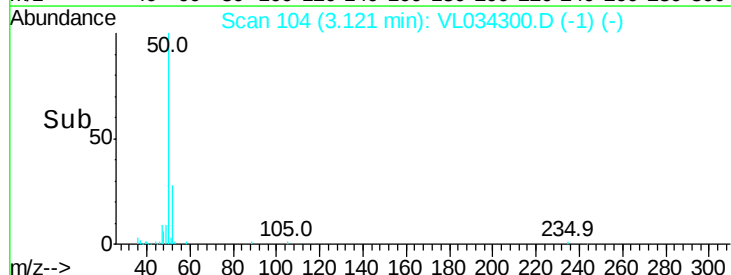
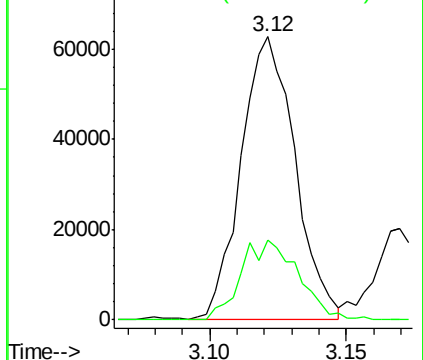
50 100

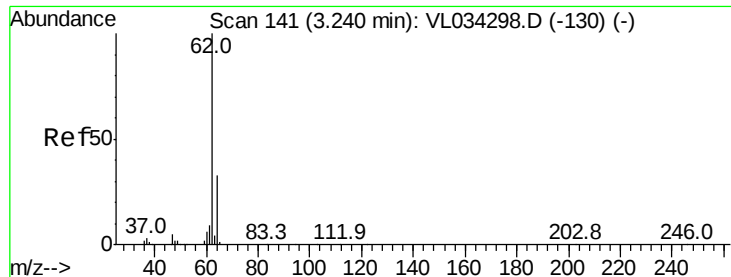
52 29.1 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.971 ppbv

RT: 3.24 min Scan# 140

Delta R.T. -0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

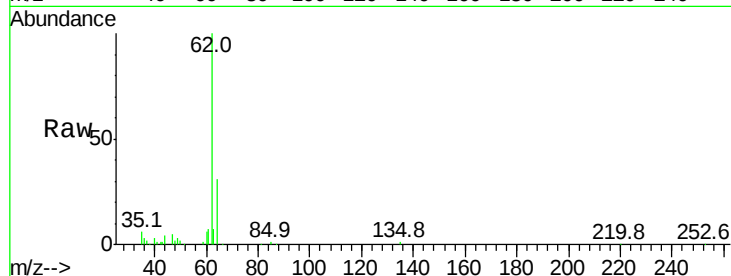
VSTDIC001

Tgt Ion: 62 Resp: 74091

Ion Ratio Lower Upper

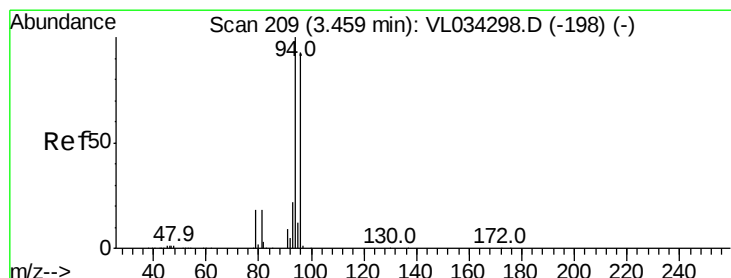
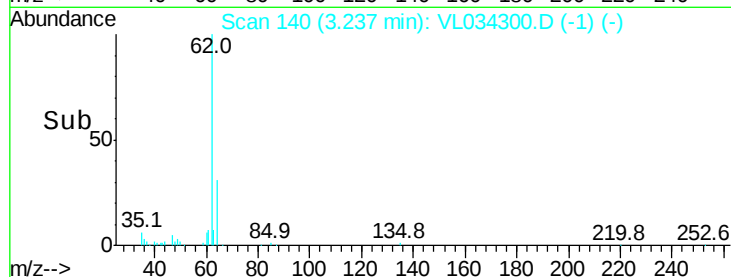
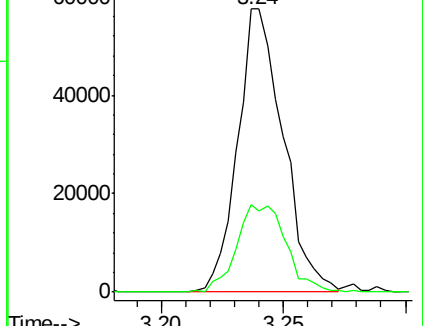
62 100

64 30.8 26.0 39.0



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 1.108 ppbv

RT: 3.46 min Scan# 210

Delta R.T. 0.00 min

Lab File: VL034300.D

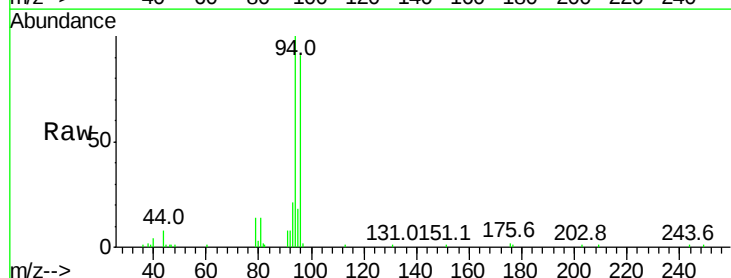
Acq: 16 Oct 2019 14:11

Tgt Ion: 94 Resp: 39459

Ion Ratio Lower Upper

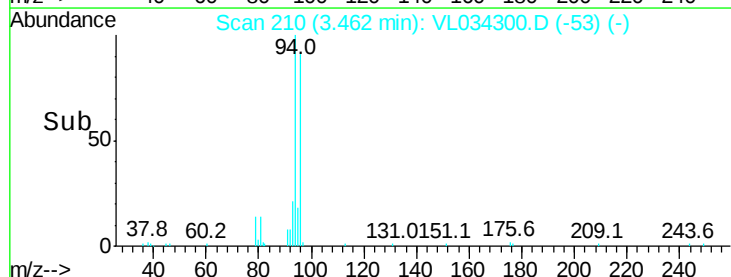
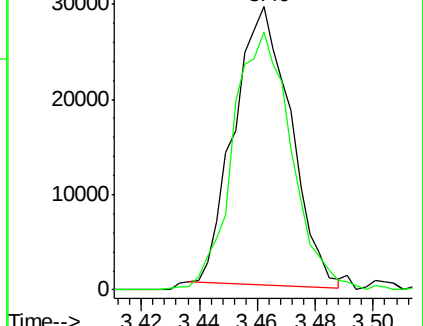
94 100

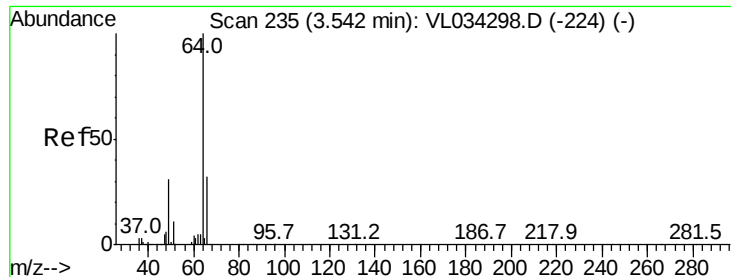
96 92.8 74.6 112.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 1.031 ppbv

RT: 3.55 min Scan# 236

Delta R.T. 0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

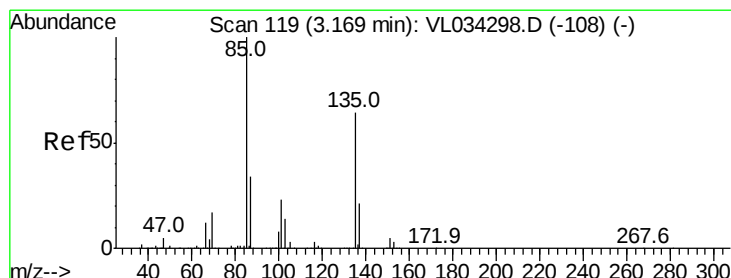
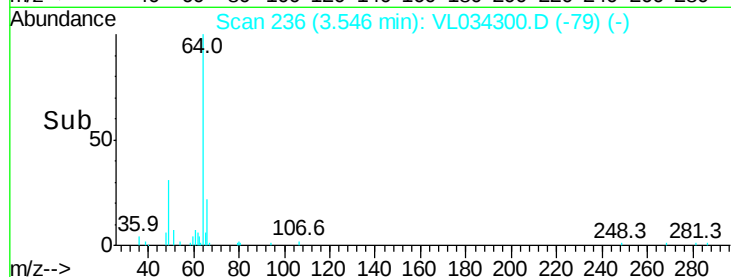
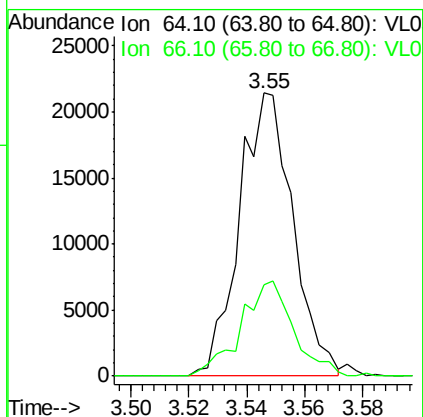
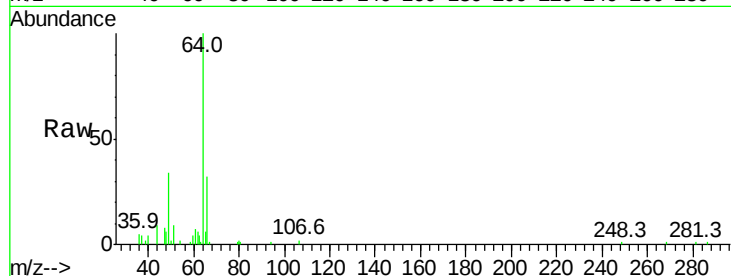
VSTDIC001

Tgt Ion: 64 Resp: 27493

Ion Ratio Lower Upper

64 100

66 32.3 25.4 38.0



#8

Dichlorotetrafluoroethane

Concen: 1.237 ppbv

RT: 3.17 min Scan# 119

Delta R.T. 0.00 min

Lab File: VL034300.D

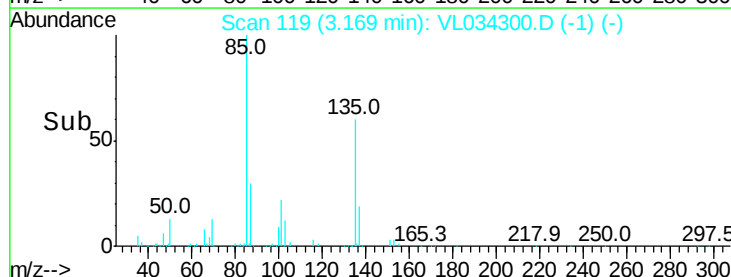
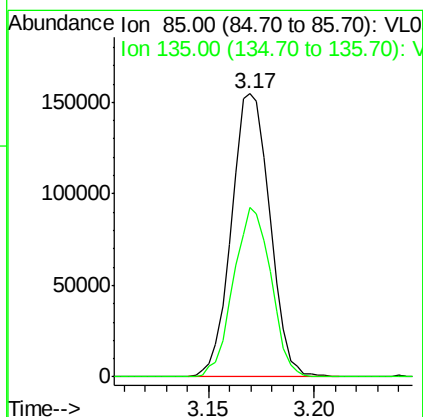
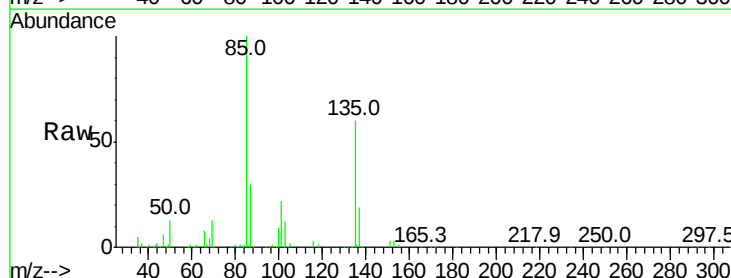
Acq: 16 Oct 2019 14:11

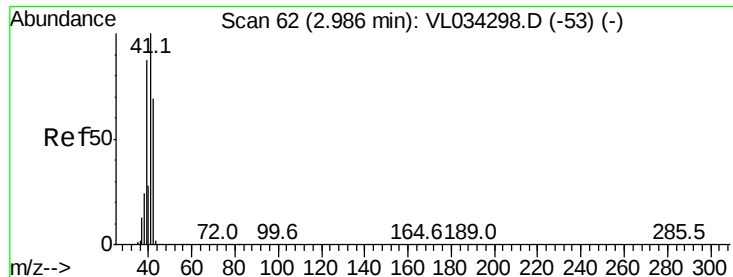
Tgt Ion: 85 Resp: 195437

Ion Ratio Lower Upper

85 100

135 58.5 50.2 75.2





#9

Propene

Concen: 0.884 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

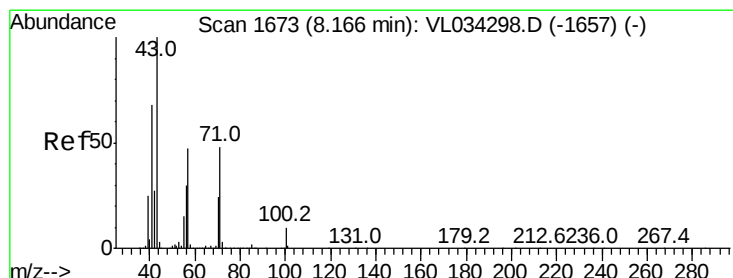
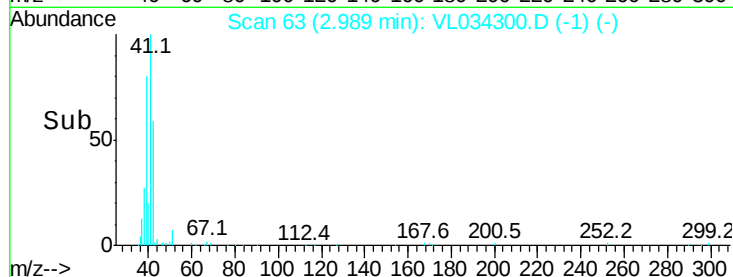
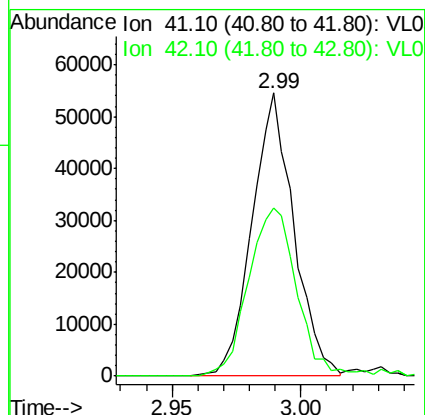
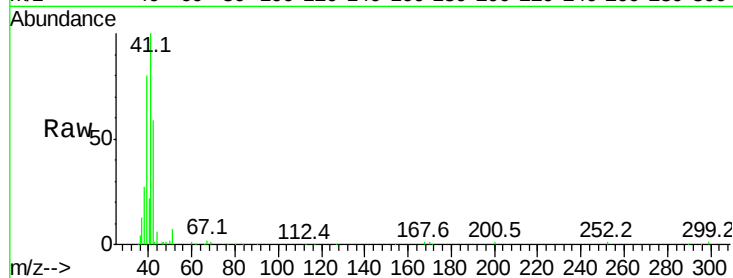
VSTDIC001

Tgt Ion: 41 Resp: 61968

Ion Ratio Lower Upper

41 100

42 70.4 53.9 80.9



#10

Heptane

Concen: 0.887 ppbv

RT: 8.17 min Scan# 1673

Delta R.T. 0.00 min

Lab File: VL034300.D

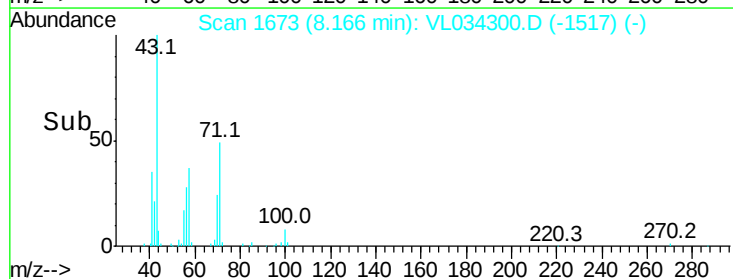
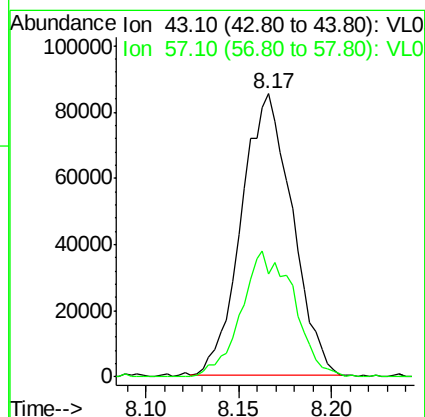
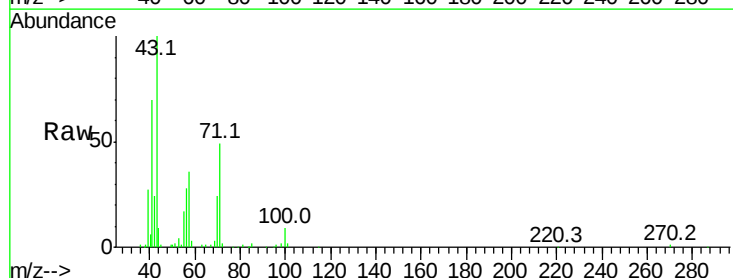
Acq: 16 Oct 2019 14:11

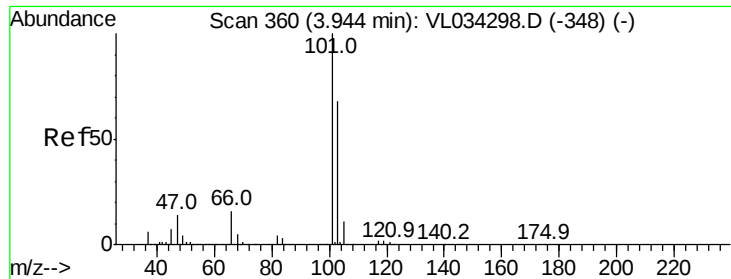
Tgt Ion: 43 Resp: 162001

Ion Ratio Lower Upper

43 100

57 46.3 39.5 59.3

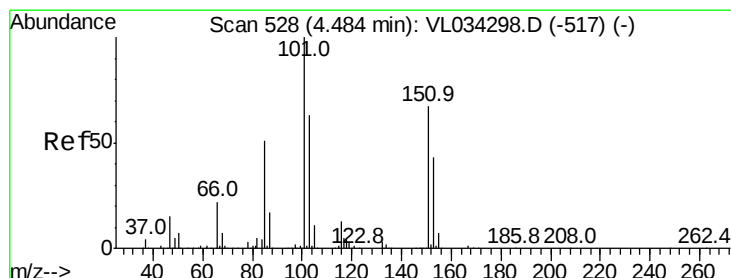
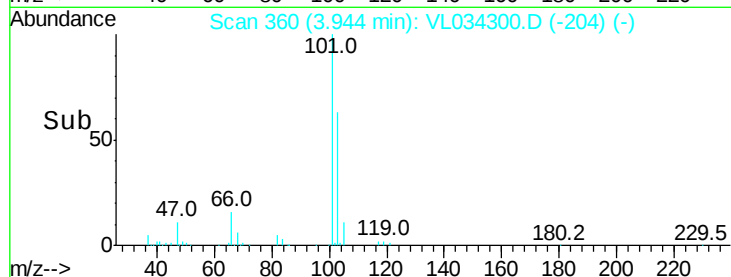
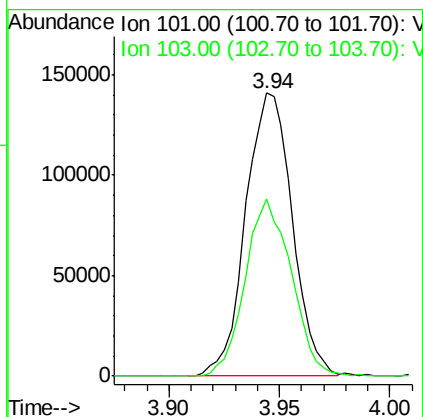
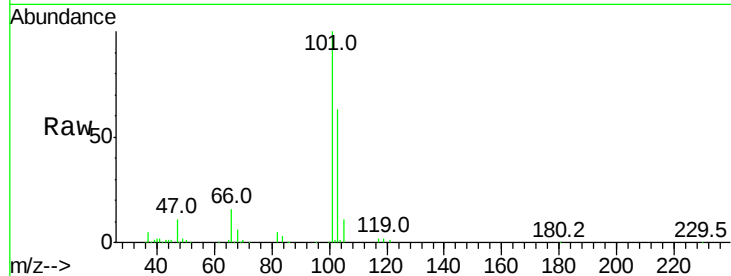




#11
 Trichlorofluoromethane
 Concen: 1.264 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. 0.00 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

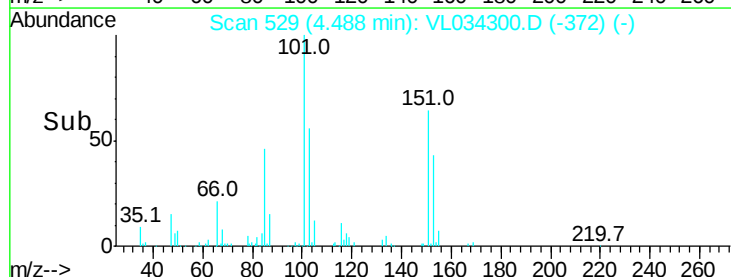
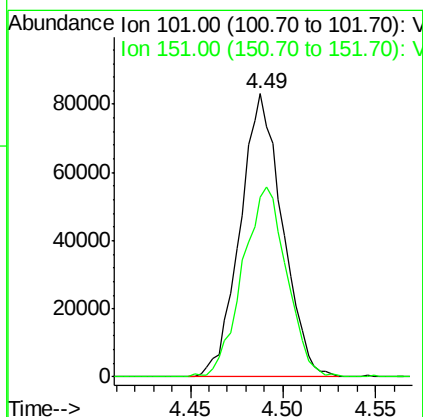
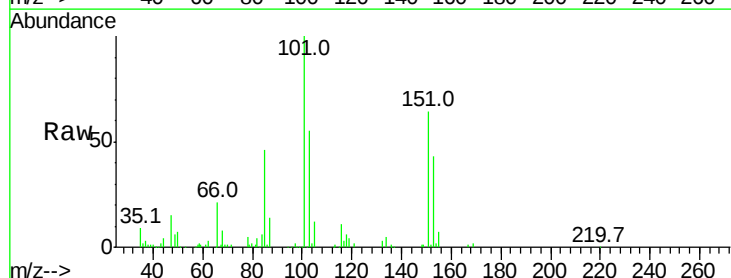
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

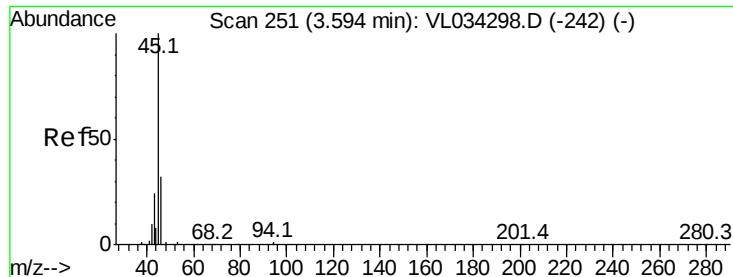
Tgt Ion:101 Resp: 206051
 Ion Ratio Lower Upper
 101 100
 103 62.8 54.5 81.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.232 ppbv
 RT: 4.49 min Scan# 529
 Delta R.T. 0.00 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

Tgt Ion:101 Resp: 131431
 Ion Ratio Lower Upper
 101 100
 151 70.1 57.4 86.2





#13

Ethanol

Concen: 1.365 ppbv

RT: 3.60 min Scan# 252

Delta R.T. 0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

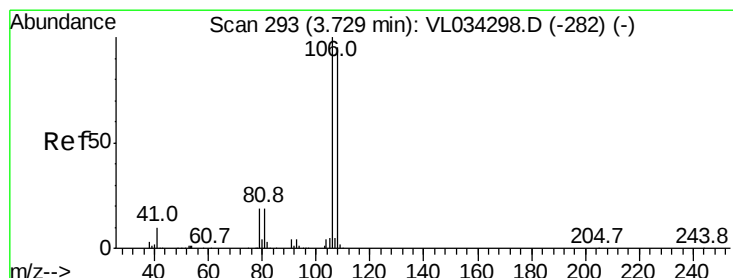
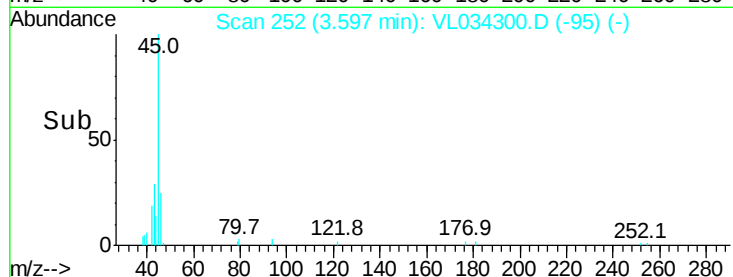
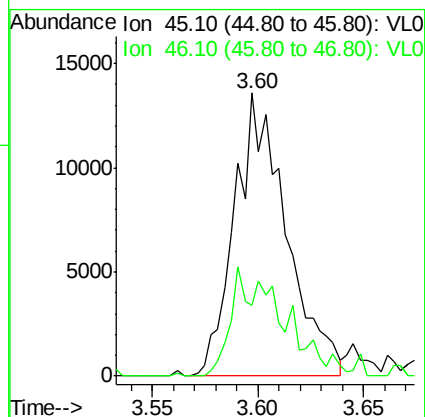
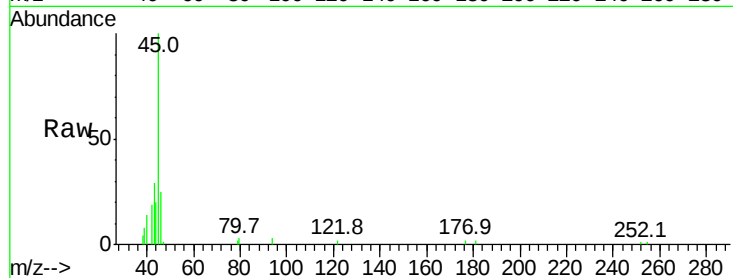
VSTDIC001

Tgt Ion: 45 Resp: 23184

Ion Ratio Lower Upper

45 100

46 39.3 15.8 63.2



#14

Bromoethene

Concen: 1.148 ppbv

RT: 3.73 min Scan# 294

Delta R.T. 0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

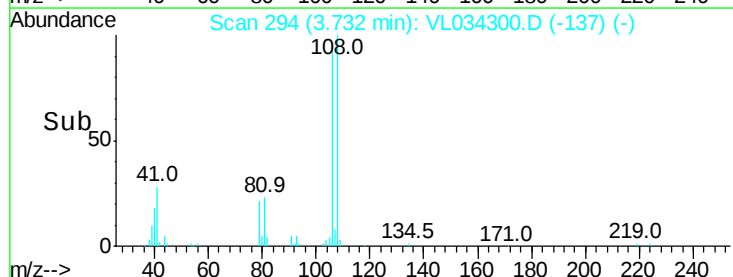
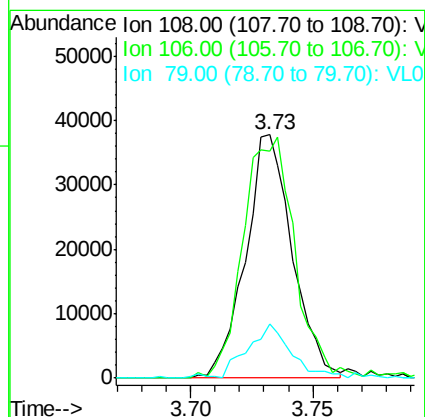
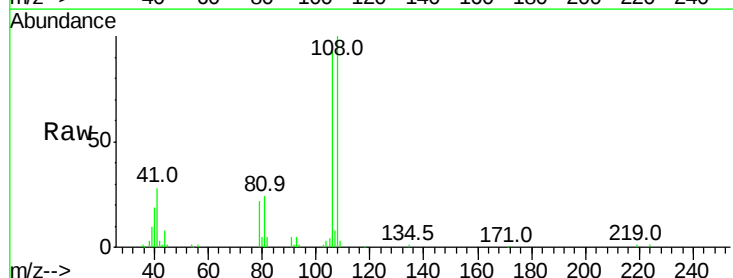
Tgt Ion: 108 Resp: 50048

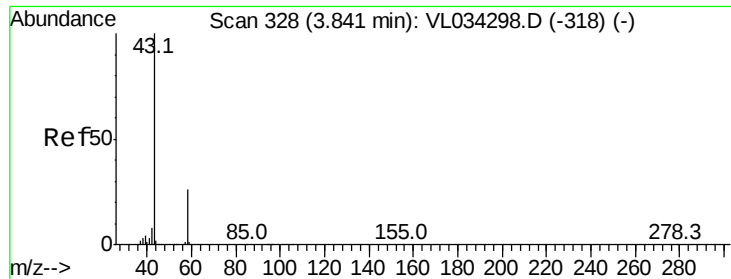
Ion Ratio Lower Upper

108 100

106 111.4 84.8 127.2

79 22.1 17.0 25.4





#15

Acetone

Concen: 1.183 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.01 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

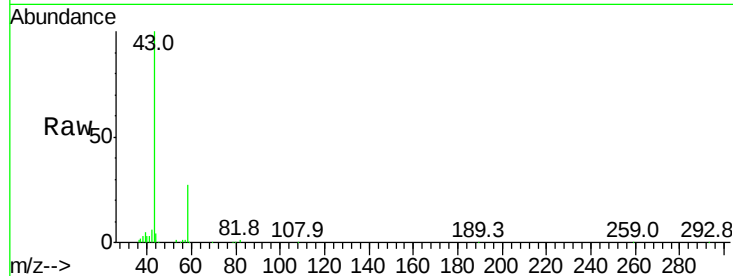
VSTDIC001

Tgt Ion: 43 Resp: 192256

Ion Ratio Lower Upper

43 100

58 26.6 20.4 30.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.85

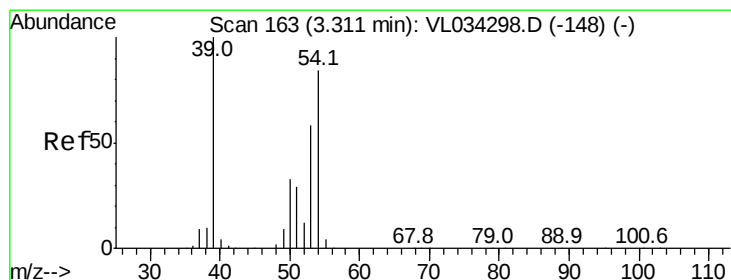
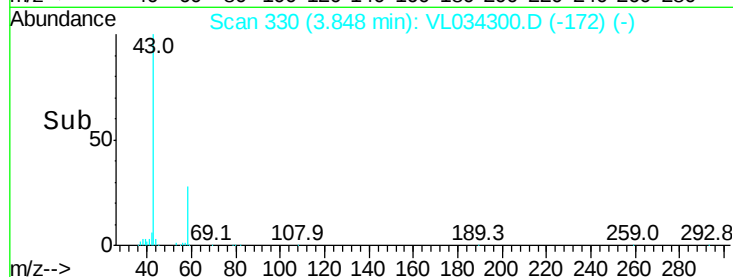
150000

100000

50000

0

Time-->



#16

1,3-Butadiene

Concen: 1.040 ppbv

RT: 3.31 min Scan# 163

Delta R.T. 0.00 min

Lab File: VL034300.D

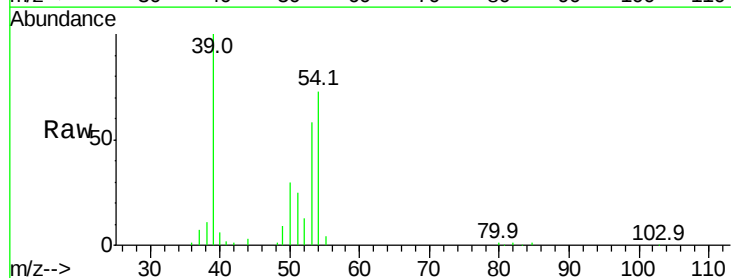
Acq: 16 Oct 2019 14:11

Tgt Ion: 39 Resp: 73706

Ion Ratio Lower Upper

39 100

54 80.1 63.9 95.9



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.31

60000

50000

40000

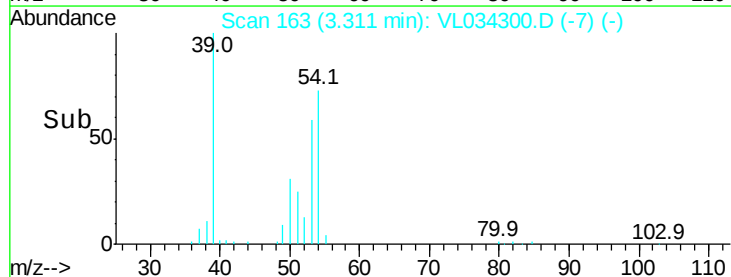
30000

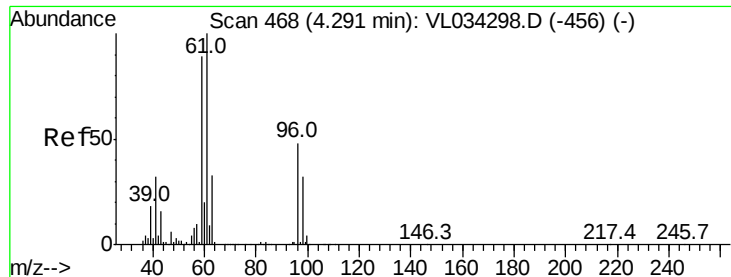
20000

10000

0

Time-->





#17

tert-Butyl alcohol

Concen: 1.221 ppbv

RT: 4.30 min Scan# 470

Delta R.T. 0.01 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

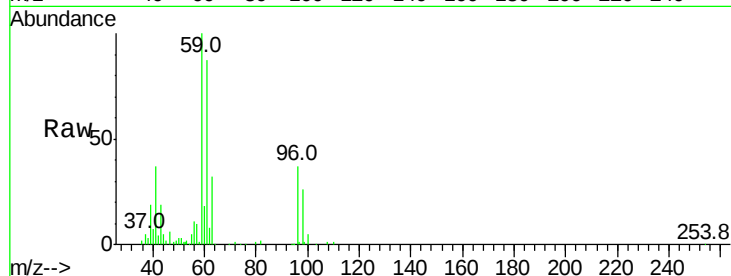
VSTDIC001

Tgt Ion: 59 Resp: 125678

Ion Ratio Lower Upper

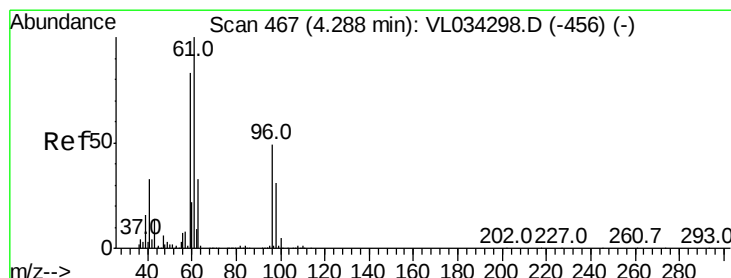
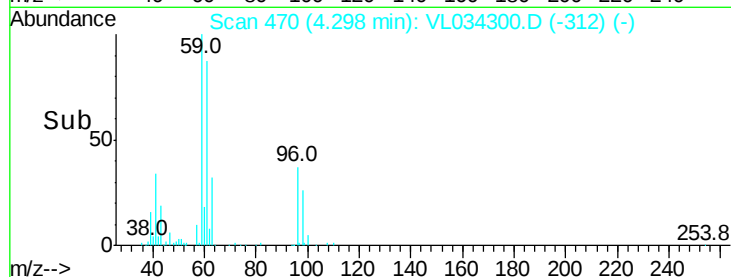
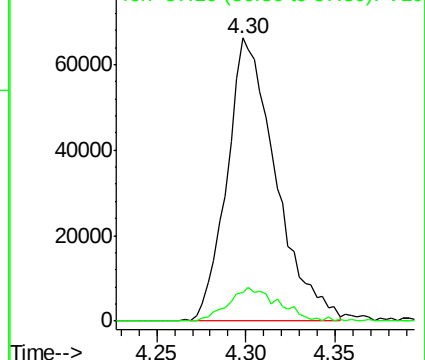
59 100

57 12.2 8.8 13.2



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 1.198 ppbv

RT: 4.29 min Scan# 467

Delta R.T. 0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

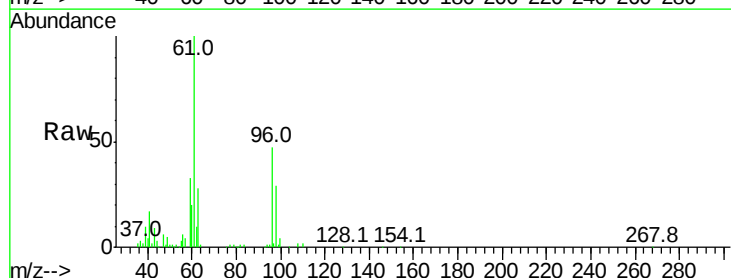
Tgt Ion: 96 Resp: 55736

Ion Ratio Lower Upper

96 100

61 214.1 164.5 246.7

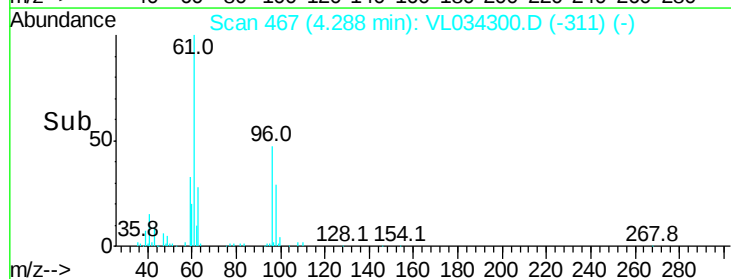
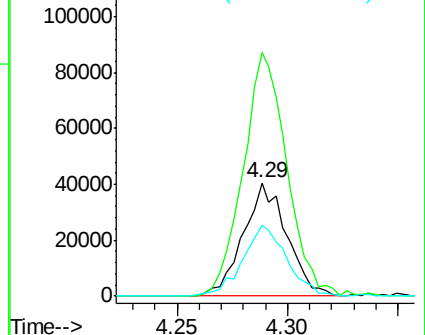
98 62.0 51.7 77.5

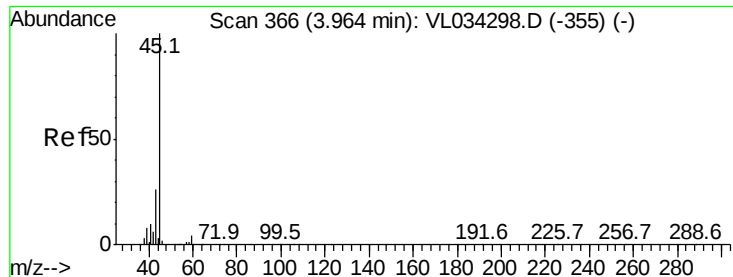


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

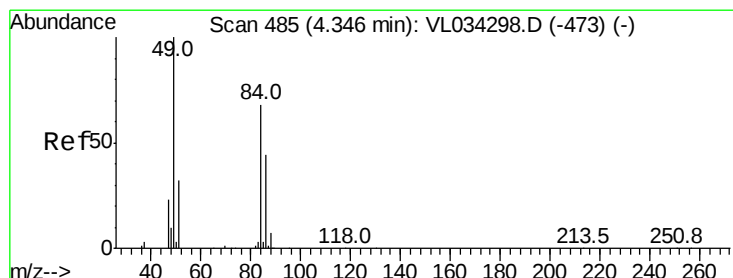
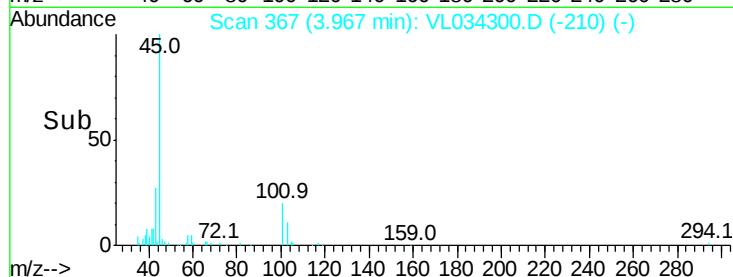
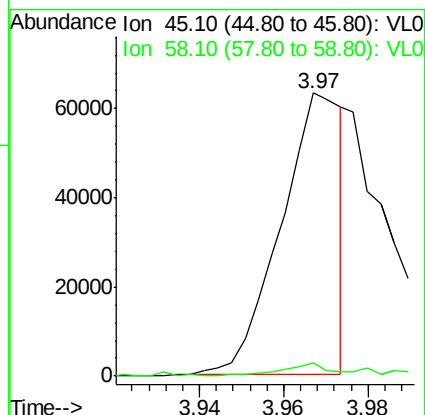
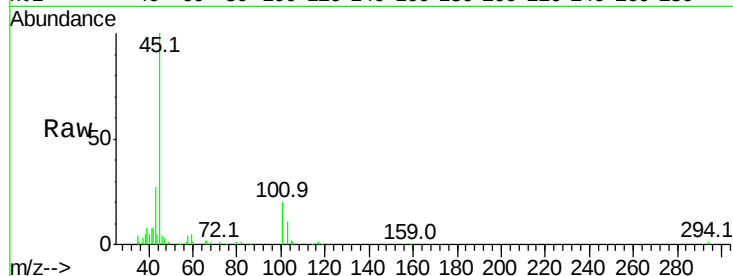




#19
Isopropyl Alcohol
Concen: 0.635 ppbv
RT: 3.97 min Scan# 367
Delta R.T. 0.00 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

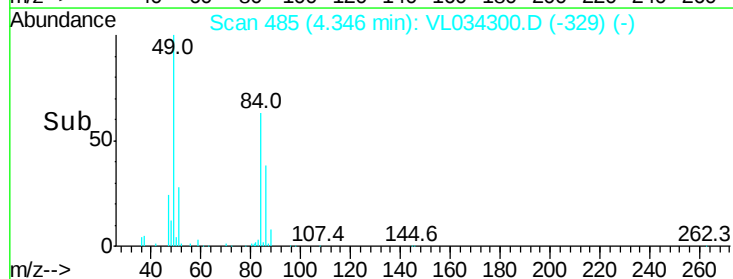
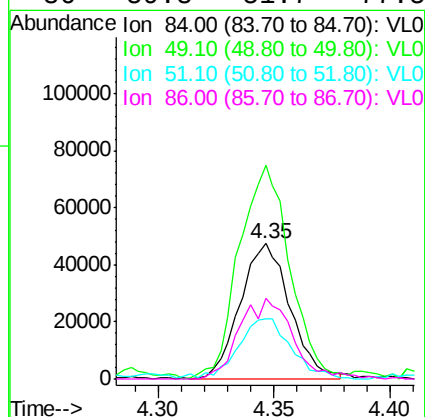
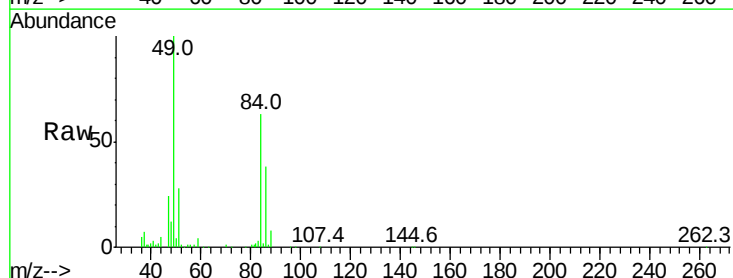
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

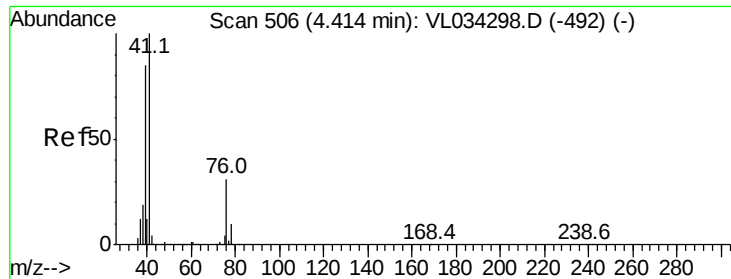
Tgt Ion: 45 Resp: 63430
Ion Ratio Lower Upper
45 100
58 6.5 1.4 2.2#



#20
Methylene Chloride
Concen: 1.515 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.00 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

Tgt Ion: 84 Resp: 70968
Ion Ratio Lower Upper
84 100
49 156.5 118.5 177.7
51 42.6 38.8 58.2
86 59.8 51.7 77.5

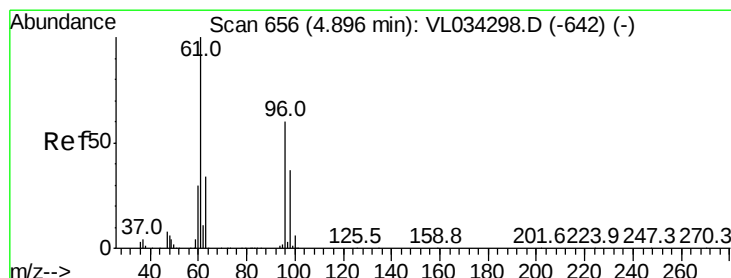
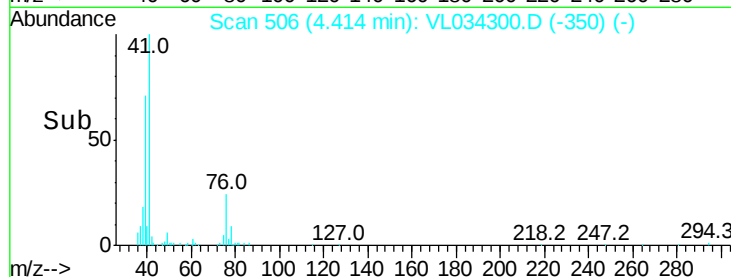
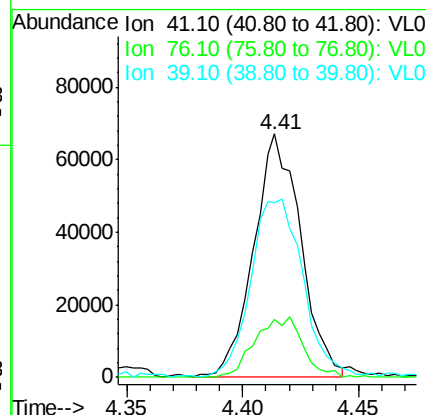
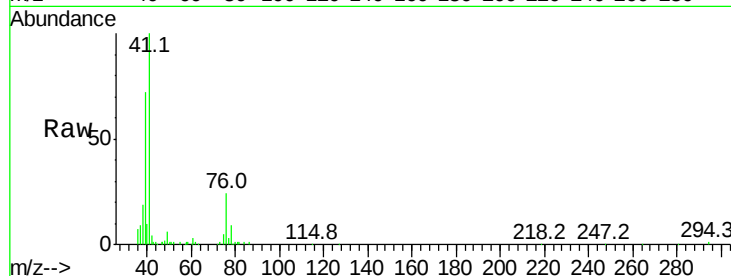




#21
 Allyl Chloride
 Concen: 1.025 ppbv
 RT: 4.41 min Scan# 506
 Delta R.T. 0.00 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

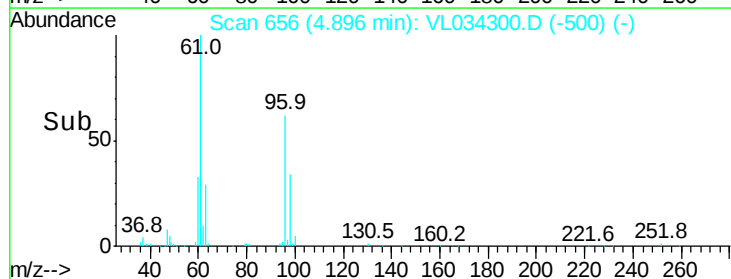
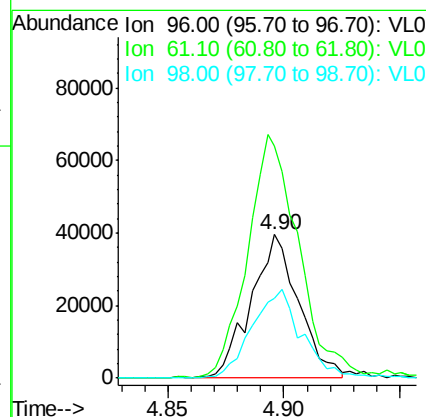
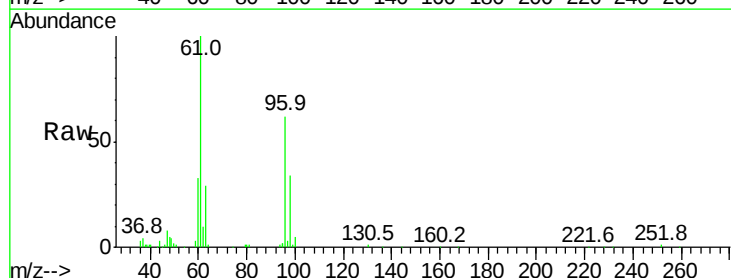
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

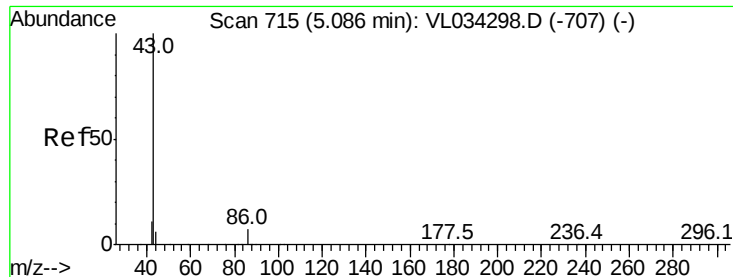
Tgt Ion: 41 Resp: 94065
 Ion Ratio Lower Upper
 41 100
 76 25.6 22.8 34.2
 39 82.8 66.0 99.0



#22
 trans-1,2-Dichloroethene
 Concen: 1.211 ppbv
 RT: 4.90 min Scan# 656
 Delta R.T. 0.00 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

Tgt Ion: 96 Resp: 56353
 Ion Ratio Lower Upper
 96 100
 61 161.8 133.8 200.6
 98 55.5 49.4 74.0





#23

Vinyl Acetate

Concen: 0.900 ppbv

RT: 5.09 min Scan# 715

Delta R.T. 0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 215362

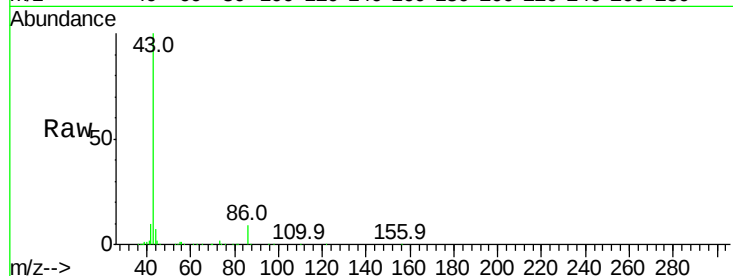
Ion Ratio Lower Upper

43 100

86 8.6 5.0 7.4#

42 9.4 8.6 13.0

44 5.8 4.8 7.2

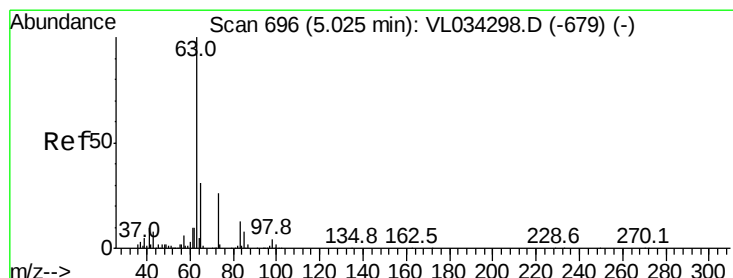
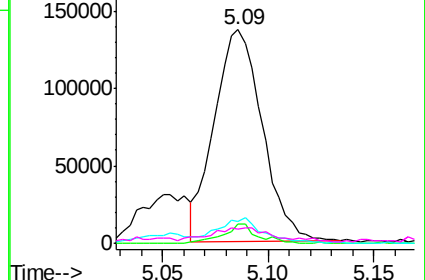
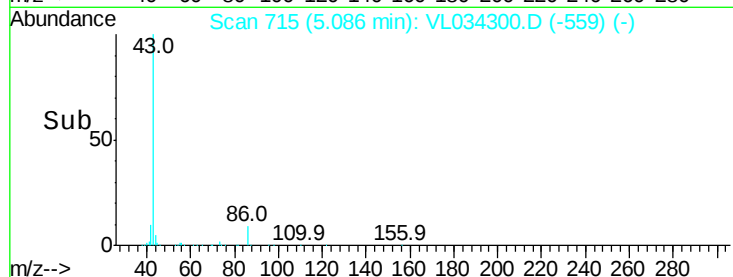


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.022 ppbv

RT: 5.02 min Scan# 696

Delta R.T. 0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

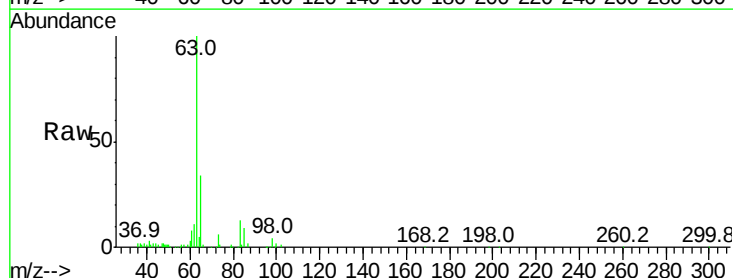
Tgt Ion: 63 Resp: 164765

Ion Ratio Lower Upper

63 100

98 4.3 2.0 6.0

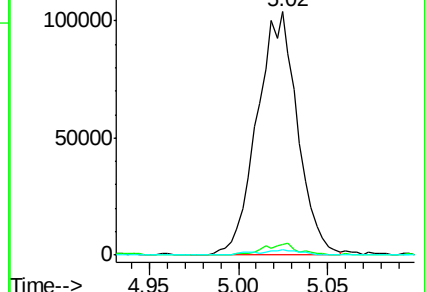
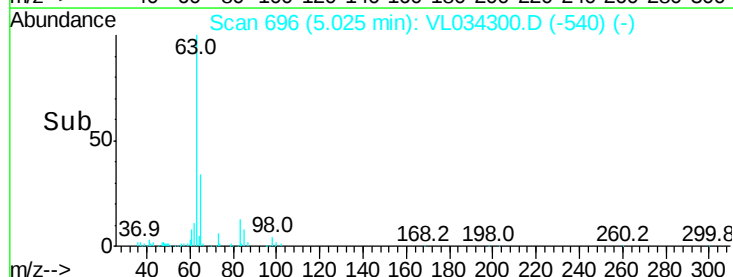
100 2.4 1.1 3.5

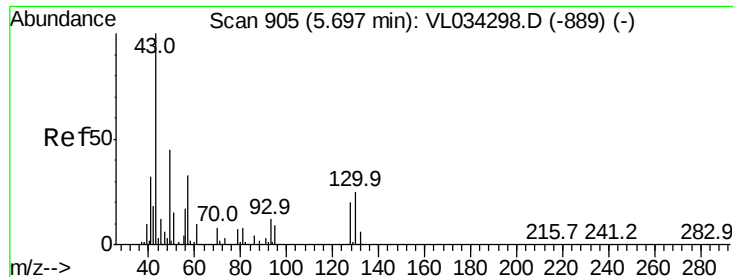


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

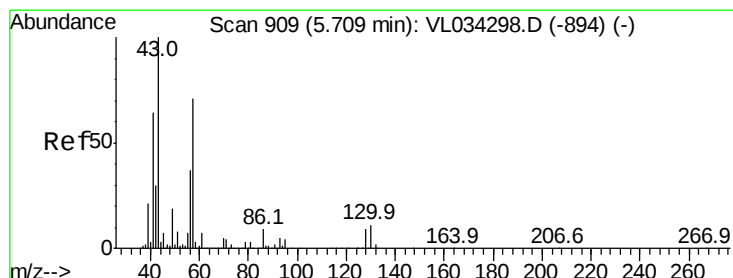
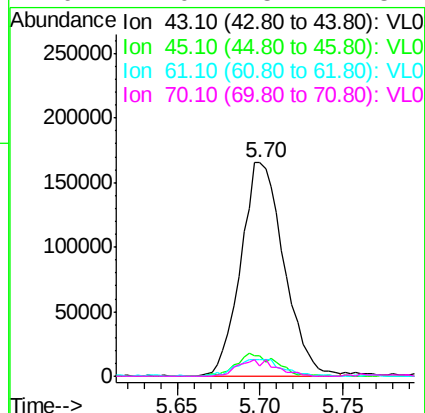
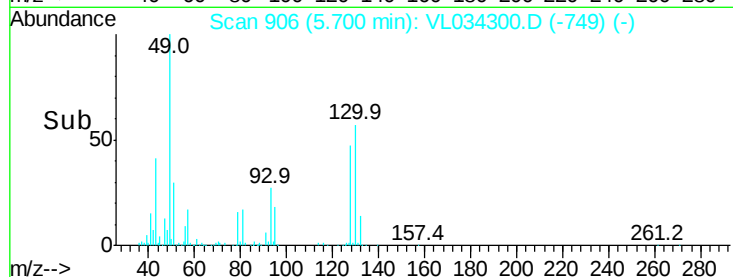
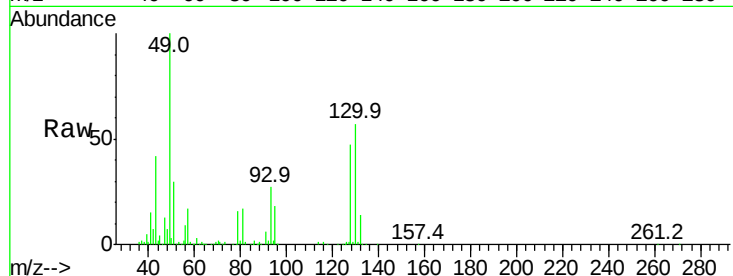




#25
Ethyl Acetate
Concen: 0.969 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.00 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

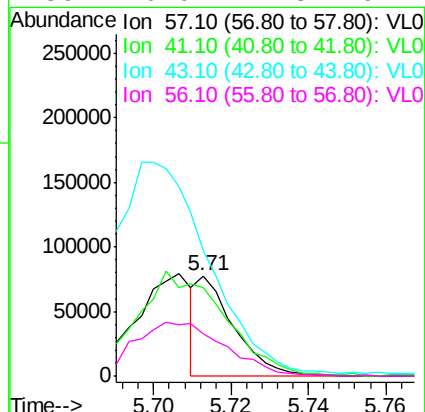
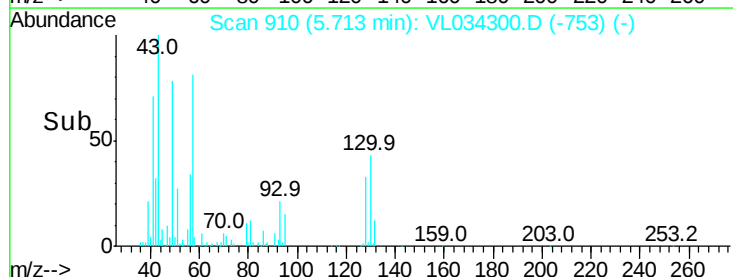
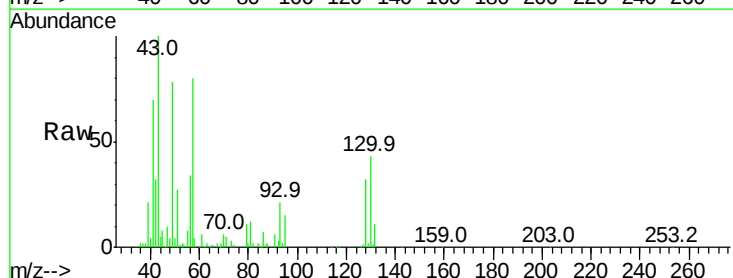
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

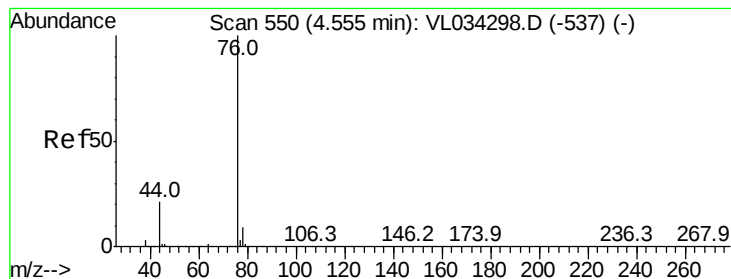
Tgt Ion:	43	Resp:	297679
Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.3	12.5
61	8.6	7.7	11.5
70	7.0	5.4	8.2



#26
Hexane
Concen: 0.394 ppbv
RT: 5.71 min Scan# 910
Delta R.T. 0.00 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

Tgt Ion:	57	Resp:	50297
Ion	Ratio	Lower	Upper
57	100		
41	0.0	76.5	114.7#
43	0.0	188.5	282.7#
56	0.0	42.8	64.2#





#27

Carbon Disulfide

Concen: 0.985 ppbv

RT: 4.56 min Scan# 551

Delta R.T. 0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

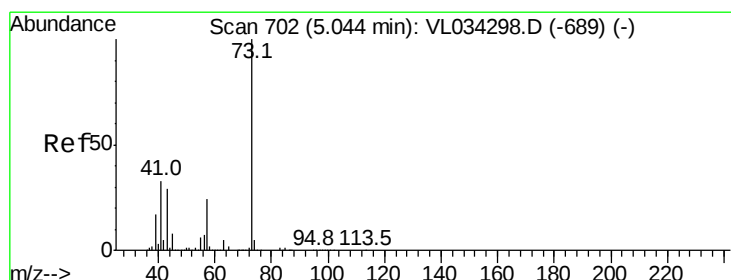
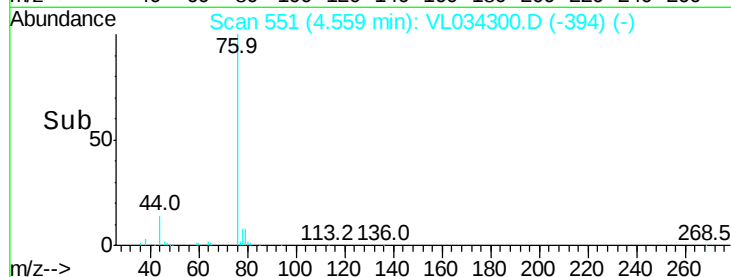
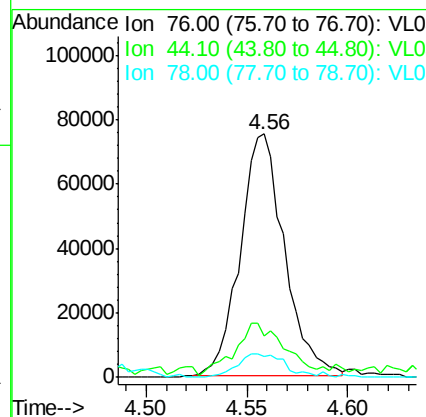
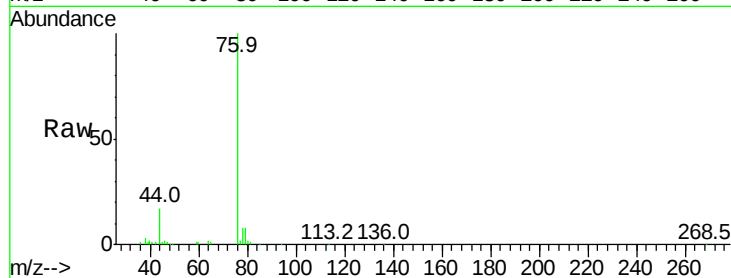
Tgt Ion: 76 Resp: 116079

Ion Ratio Lower Upper

76 100

44 26.1 17.3 25.9#

78 11.0 7.8 11.6



#28

Methyl tert-Butyl Ether

Concen: 1.014 ppbv

RT: 5.05 min Scan# 703

Delta R.T. 0.00 min

Lab File: VL034300.D

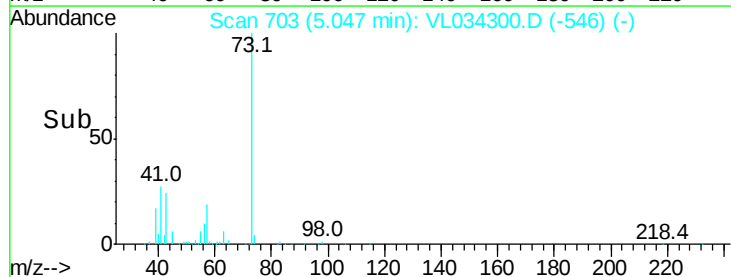
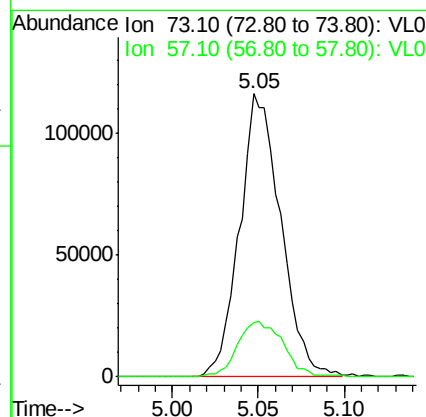
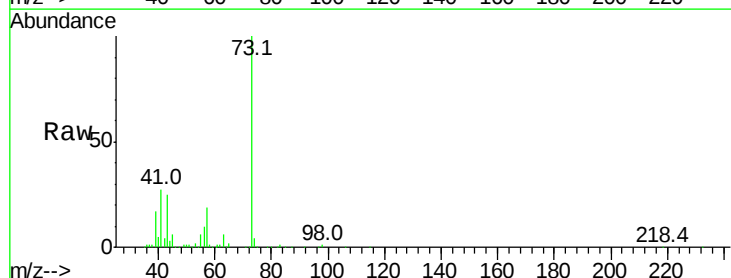
Acq: 16 Oct 2019 14:11

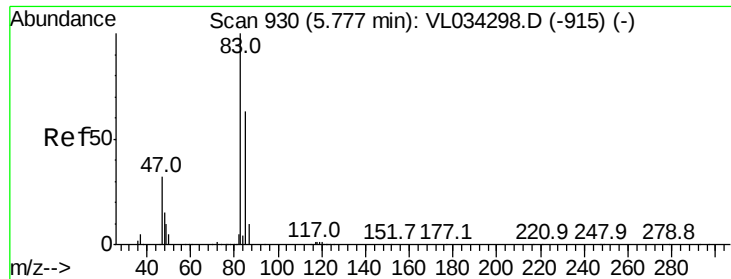
Tgt Ion: 73 Resp: 192443

Ion Ratio Lower Upper

73 100

57 22.0 19.2 28.8

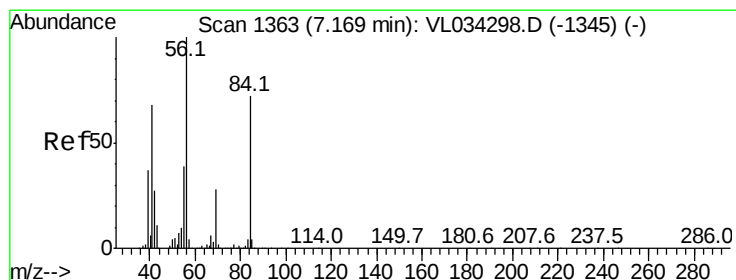
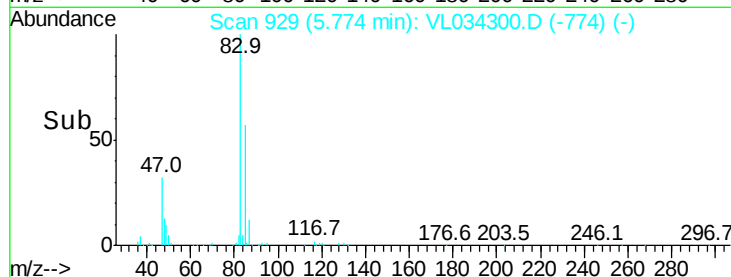
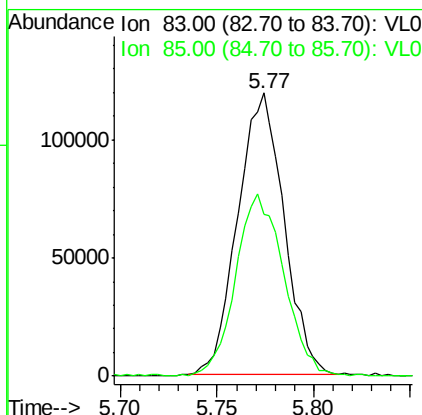
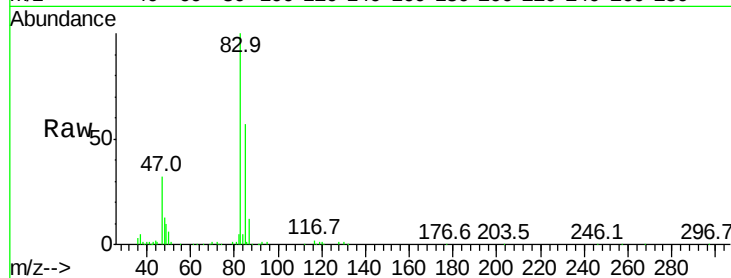




#29
Chloroform
Concen: 1.078 ppbv
RT: 5.77 min Scan# 929
Delta R.T. -0.00 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

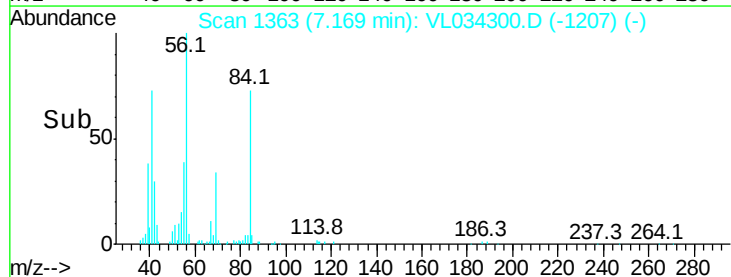
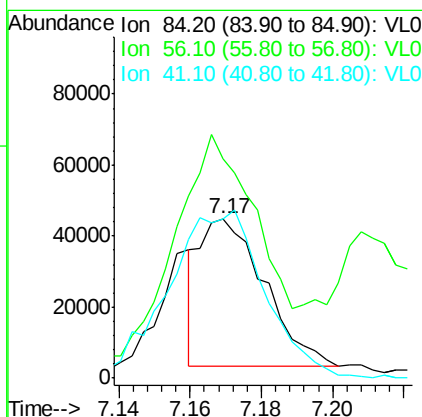
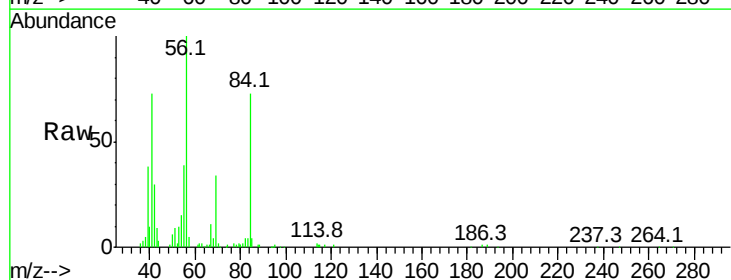
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

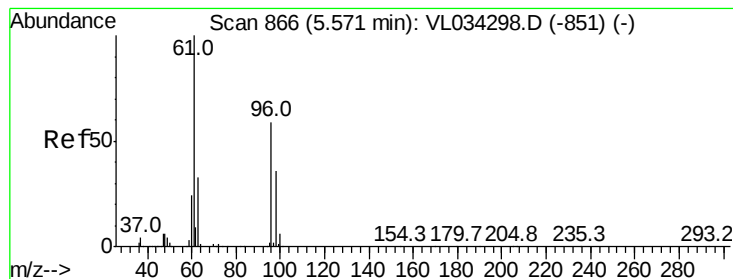
Tgt Ion: 83 Resp: 196889
Ion Ratio Lower Upper
83 100
85 57.1 50.5 75.7



#30
Cyclohexane
Concen: 0.560 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. 0.00 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

Tgt Ion: 84 Resp: 51688
Ion Ratio Lower Upper
84 100
56 254.8 119.4 179.0#
41 173.4 78.7 118.1#





#31

cis-1,2-Dichloroethene

Concen: 0.964 ppbv

RT: 5.56 min Scan# 864

Delta R.T. -0.01 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

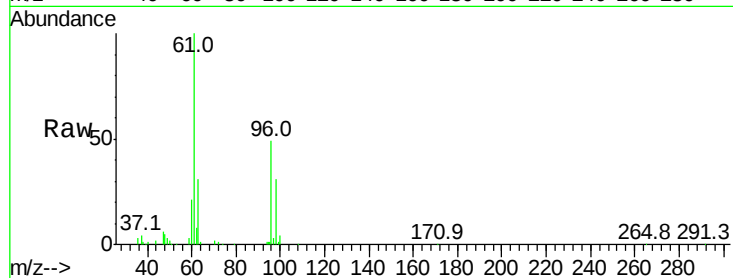
Tgt Ion: 61 Resp: 125523

Ion Ratio Lower Upper

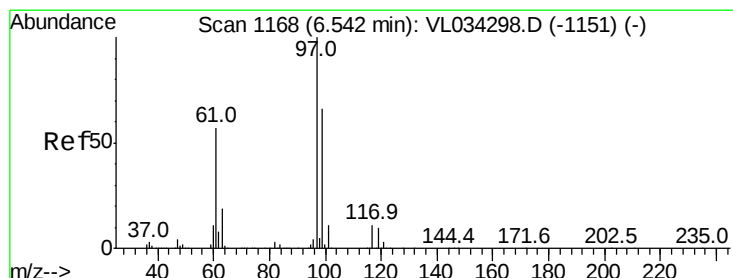
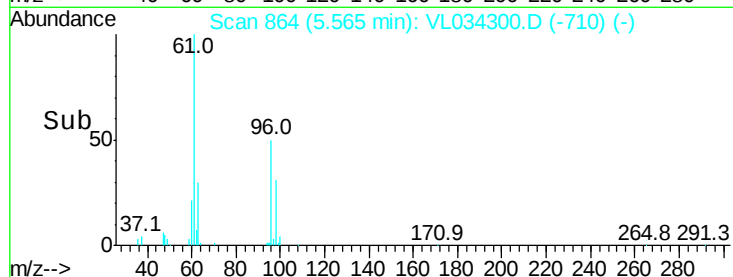
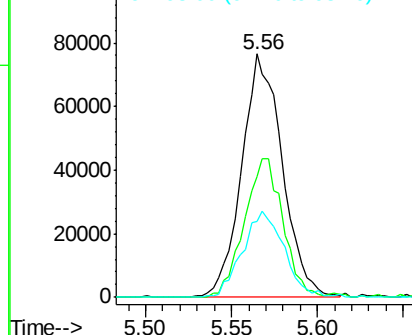
61 100

96 49.3 47.5 71.3

98 31.1 28.8 43.2



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: 1.047 ppbv

RT: 6.54 min Scan# 1168

Delta R.T. 0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

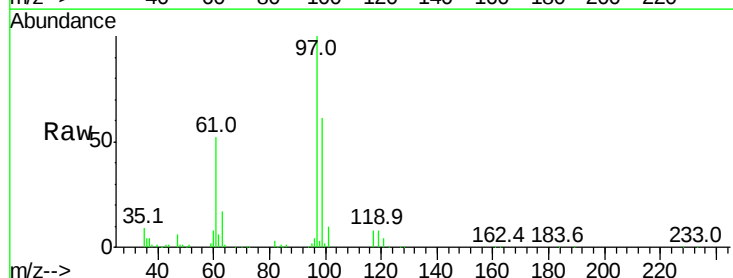
Tgt Ion: 97 Resp: 184467

Ion Ratio Lower Upper

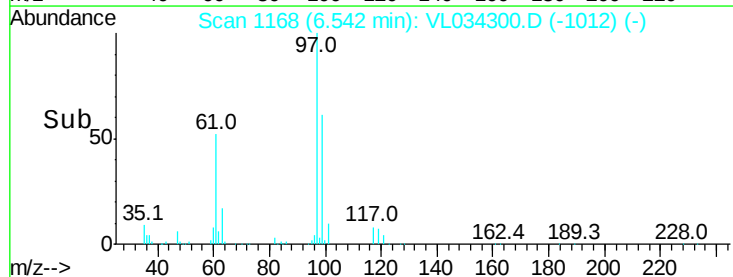
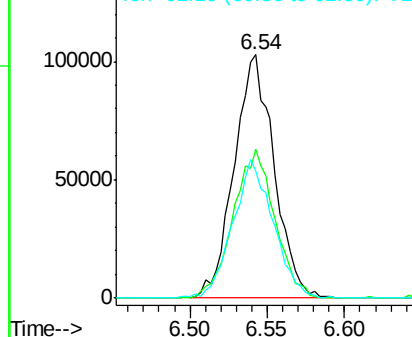
97 100

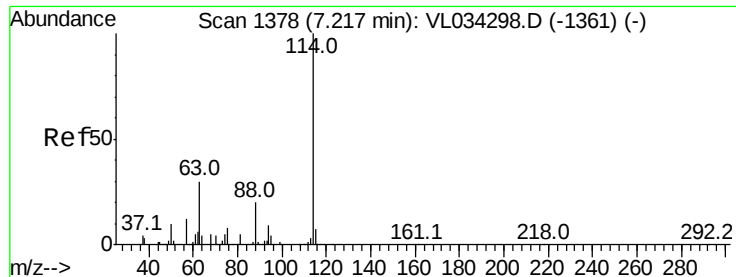
99 63.4 52.6 78.8

61 57.5 44.5 66.7



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

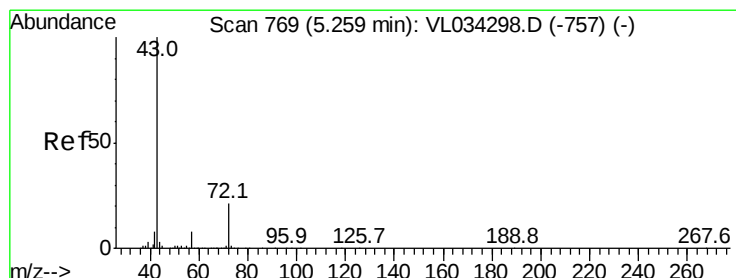
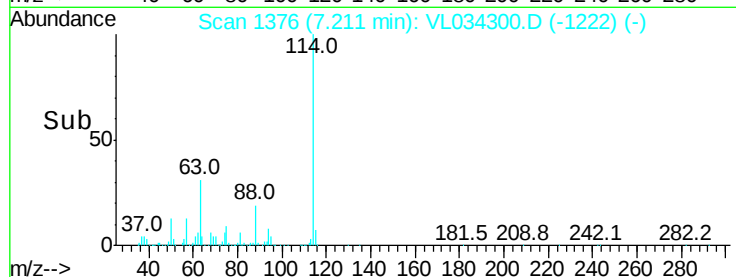
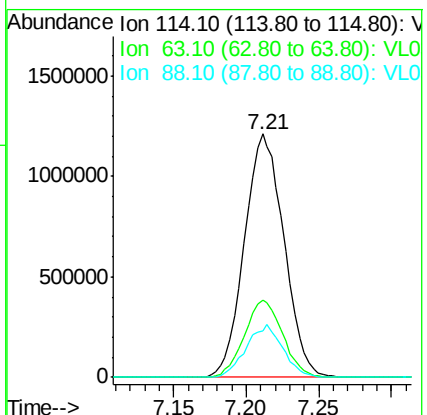
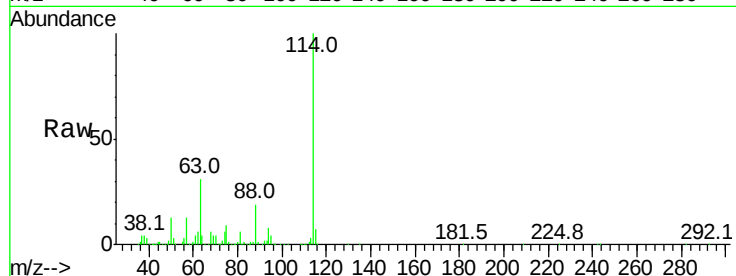




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

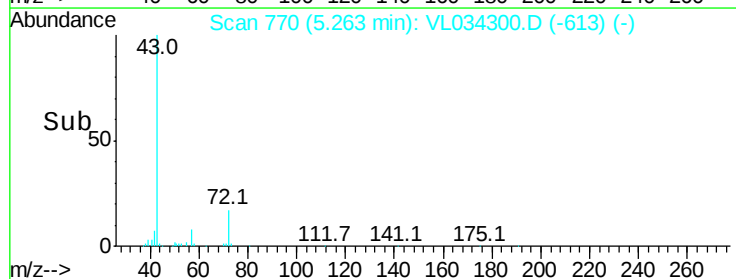
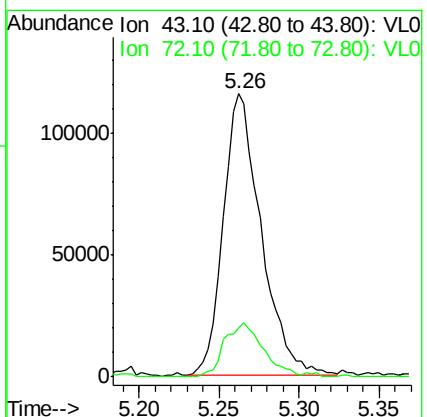
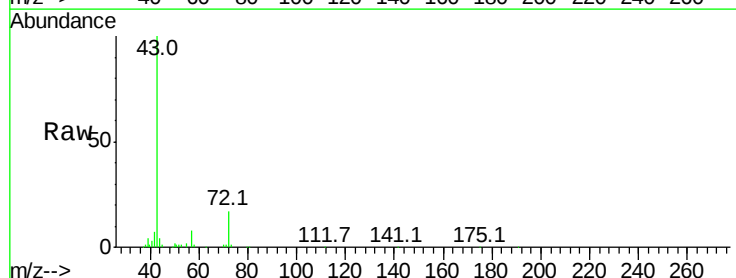
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

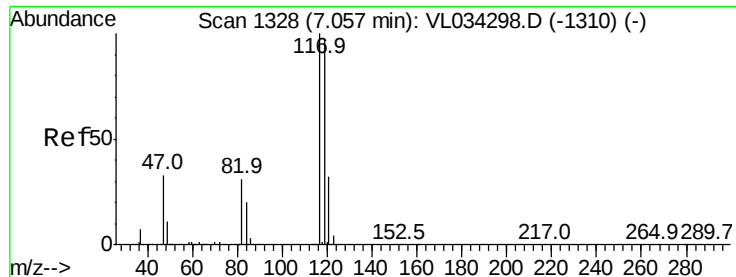
Tgt Ion:114 Resp: 2296474
 Ion Ratio Lower Upper
 114 100
 63 31.0 25.2 37.8
 88 20.2 16.0 24.0



#34
 2-Butanone
 Concen: 0.806 ppbv
 RT: 5.26 min Scan# 770
 Delta R.T. 0.00 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

Tgt Ion: 43 Resp: 189013
 Ion Ratio Lower Upper
 43 100
 72 20.3 16.3 24.5





#35

Carbon Tetrachloride

Concen: 1.008 ppbv

RT: 7.05 min Scan# 1327

Delta R.T. -0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

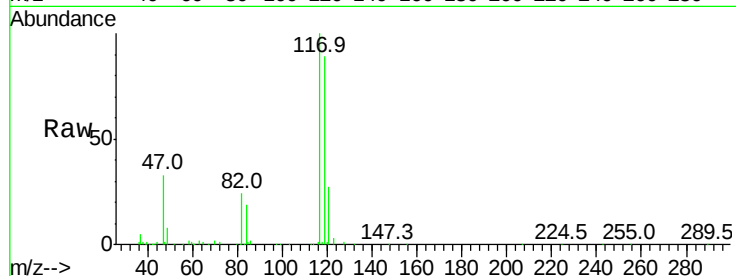
Tgt Ion: 117 Resp: 192271

Ion Ratio Lower Upper

117 100

119 89.3 77.3 115.9

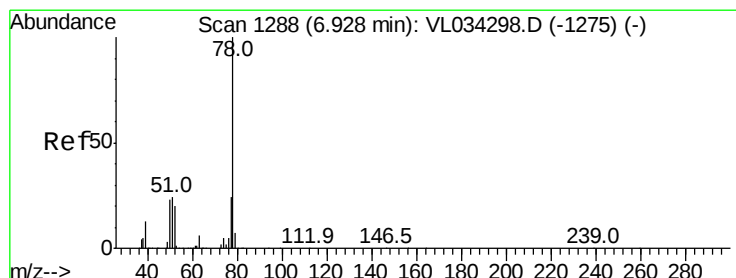
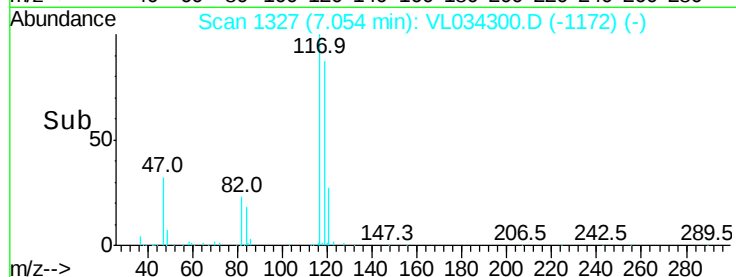
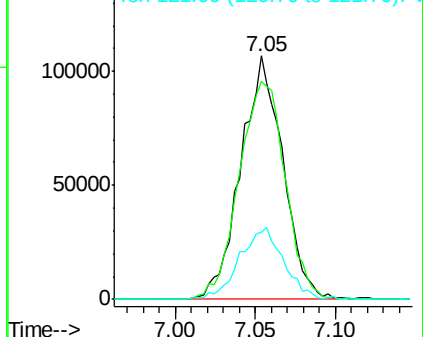
121 27.3 25.5 38.3



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: 0.901 ppbv

RT: 6.92 min Scan# 1287

Delta R.T. -0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

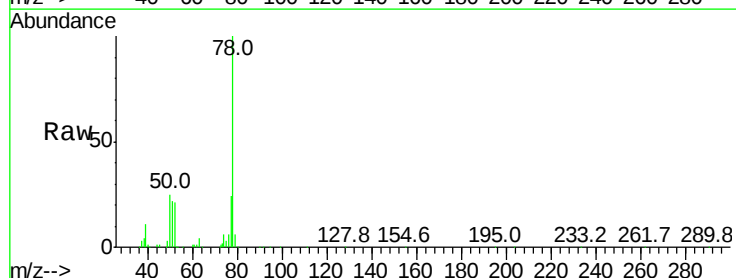
Tgt Ion: 78 Resp: 228556

Ion Ratio Lower Upper

78 100

77 24.2 19.0 28.4

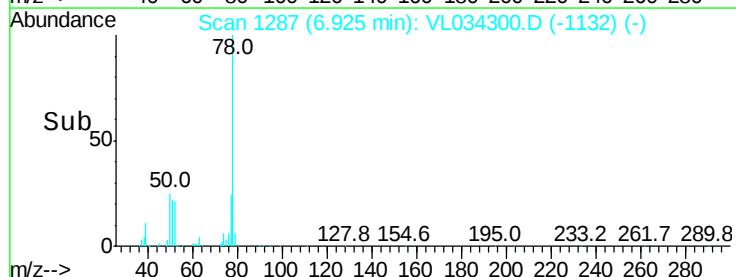
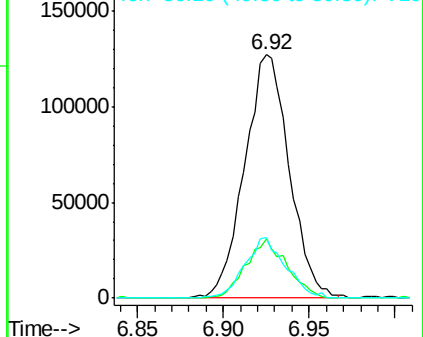
50 25.1 18.6 27.8

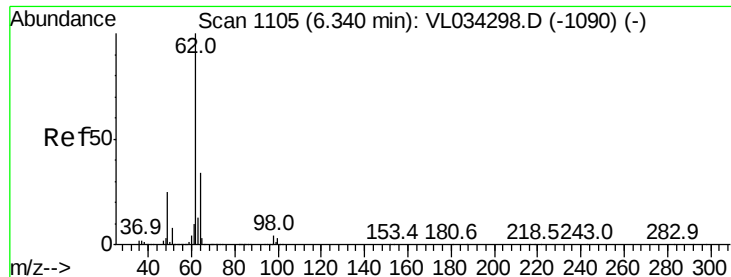


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 0.936 ppbv

RT: 6.33 min Scan# 1103

Delta R.T. -0.01 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

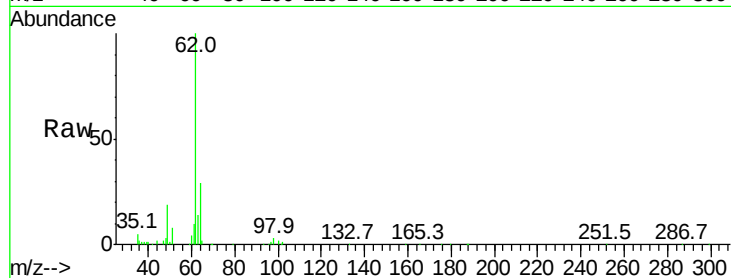
VSTDIC001

Tgt Ion: 62 Resp: 168878

Ion Ratio Lower Upper

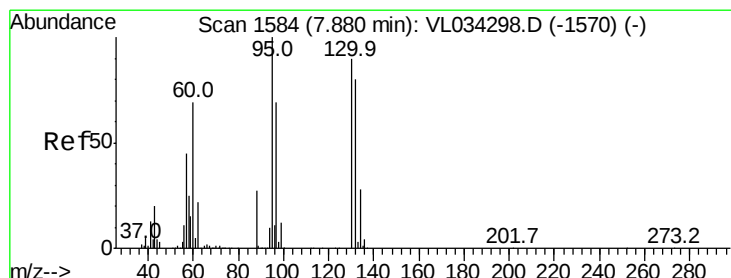
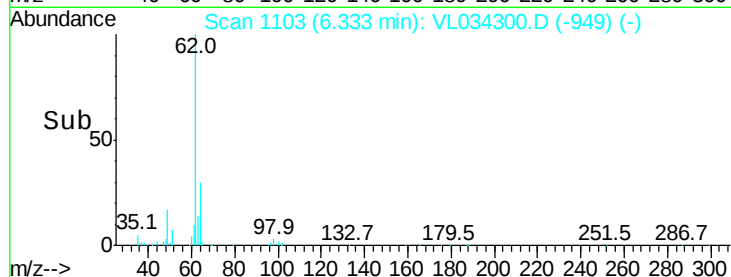
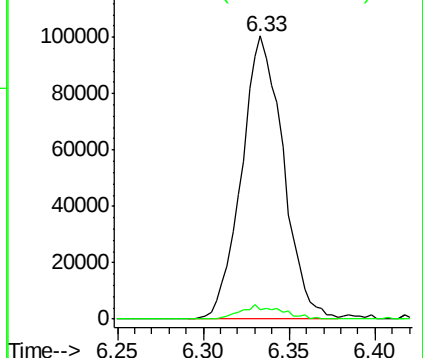
62 100

98 4.9 3.8 5.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 0.956 ppbv

RT: 7.88 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Tgt Ion: 130 Resp: 86639

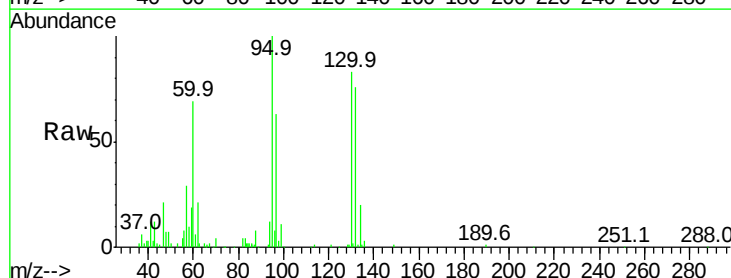
Ion Ratio Lower Upper

130 100

95 120.8 88.6 132.8

132 92.7 71.2 106.8

97 75.9 61.0 91.4

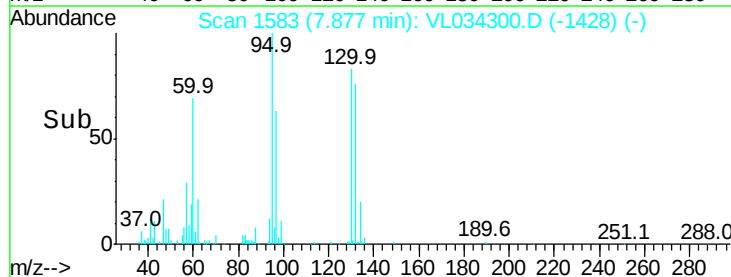
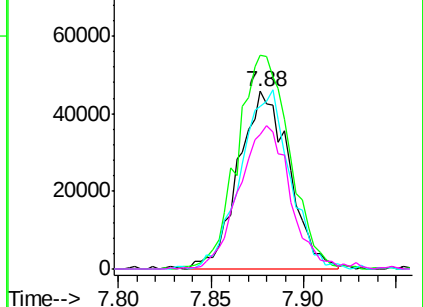


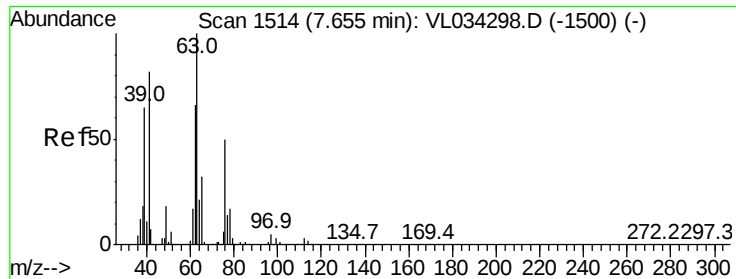
Abundance Ion 130.00 (129.70 to 130.70): V

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

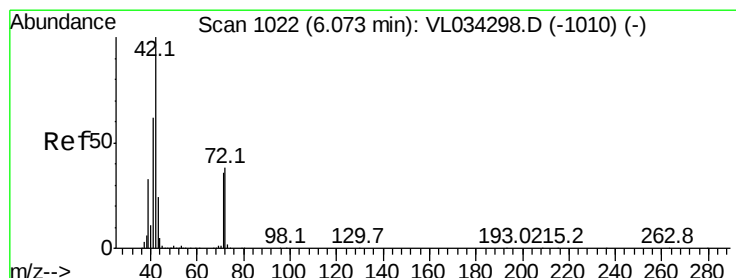
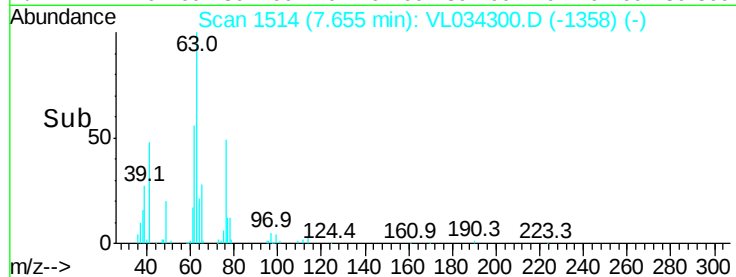
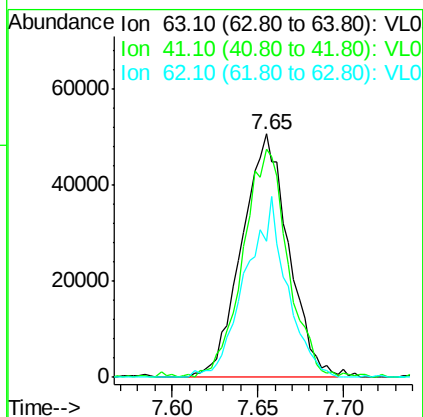
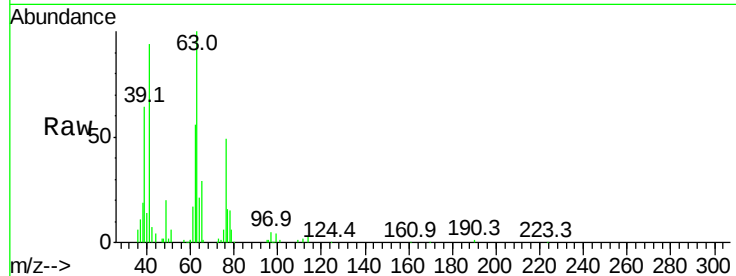




#39
 1,2-Dichloropropane
 Concen: 0.838 ppbv
 RT: 7.65 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

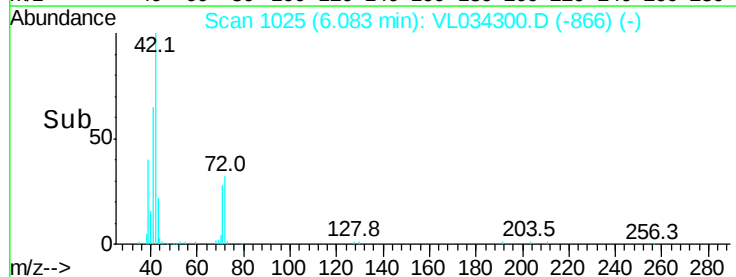
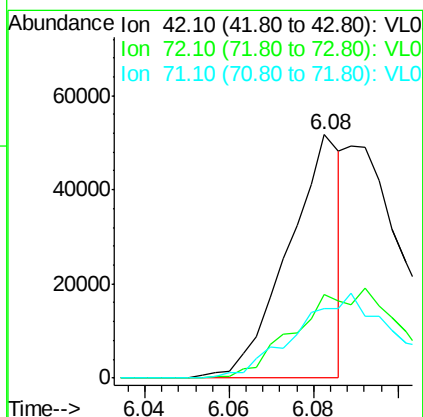
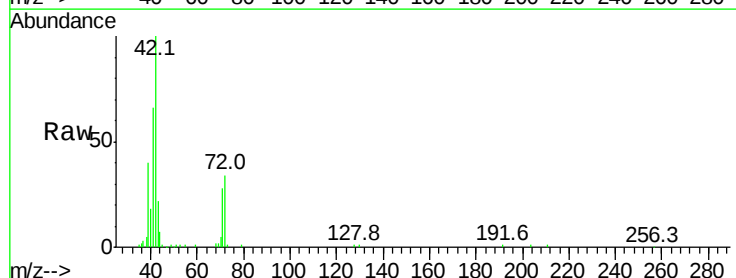
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

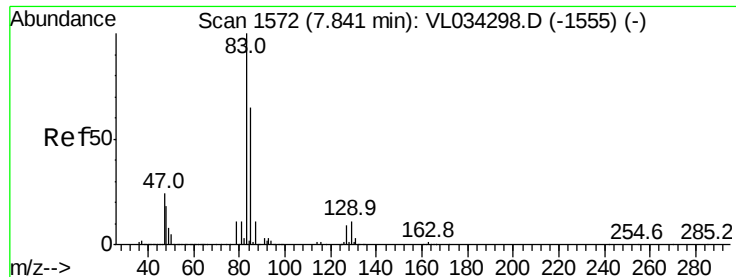
Tgt Ion: 63 Resp: 95506
 Ion Ratio Lower Upper
 63 100
 41 93.4 65.6 98.4
 62 56.3 53.0 79.6



#41
 Tetrahydrofuran
 Concen: 0.341 ppbv
 RT: 6.08 min Scan# 1025
 Delta R.T. 0.01 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

Tgt Ion: 42 Resp: 45077
 Ion Ratio Lower Upper
 42 100
 72 0.0 28.0 42.0#
 71 0.0 27.3 40.9#





#42

Bromodichloromethane

Concen: 0.923 ppbv

RT: 7.83 min Scan# 1569

Delta R.T. -0.01 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

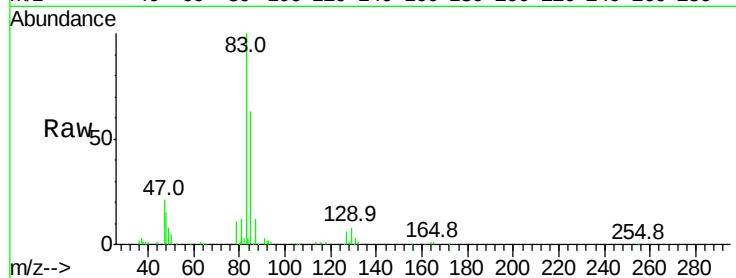
Tgt Ion: 83 Resp: 199878

Ion Ratio Lower Upper

83 100

85 63.1 51.8 77.6

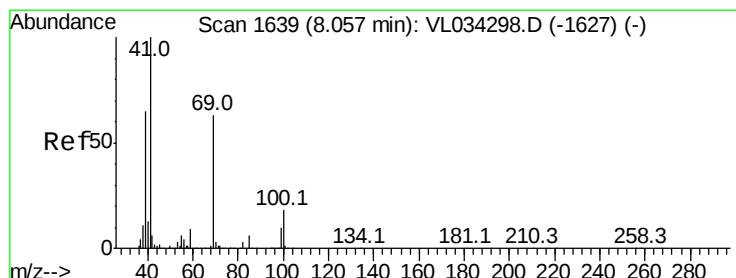
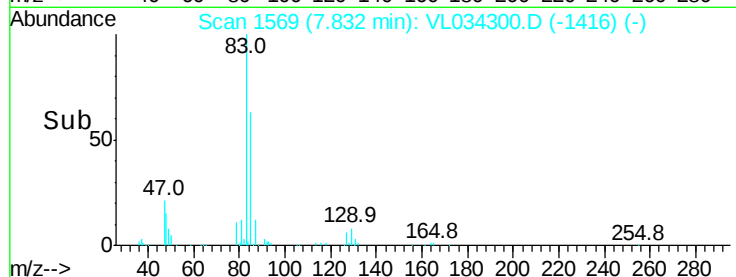
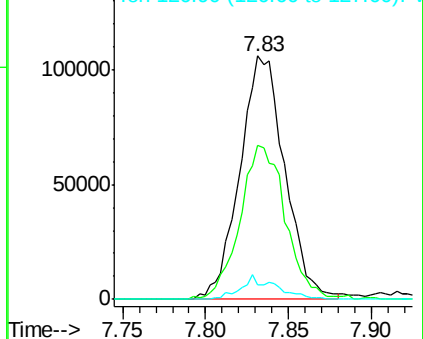
127 6.1 7.0 10.6#



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): VL0



#43

Methyl Methacrylate

Concen: 0.361 ppbv

RT: 8.05 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

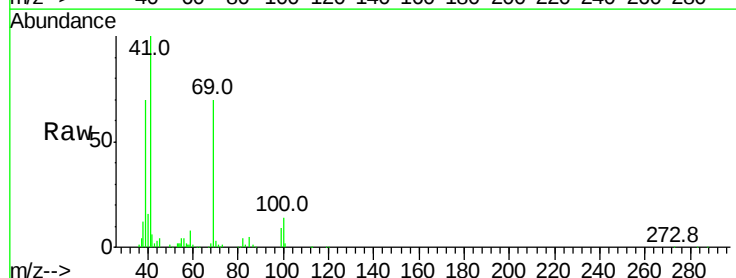
Tgt Ion: 69 Resp: 37855

Ion Ratio Lower Upper

69 100

41 0.0 132.1 198.1#

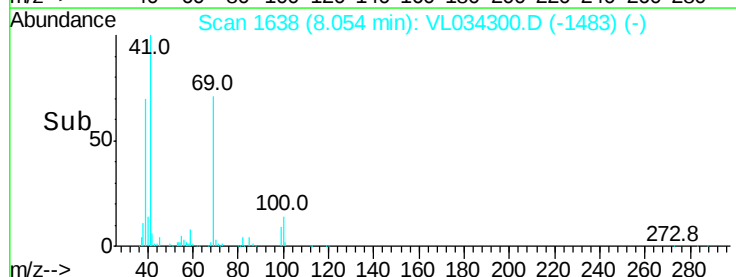
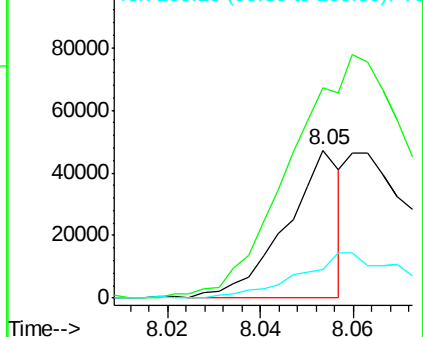
100 0.0 23.2 34.8#

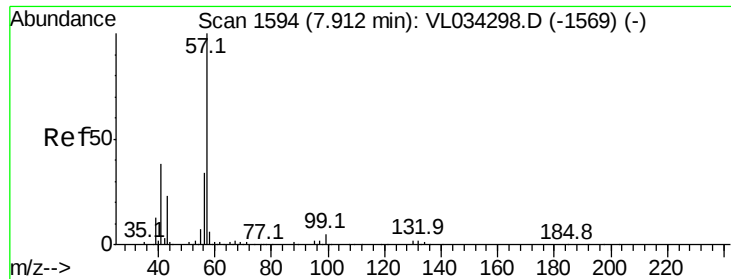


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0

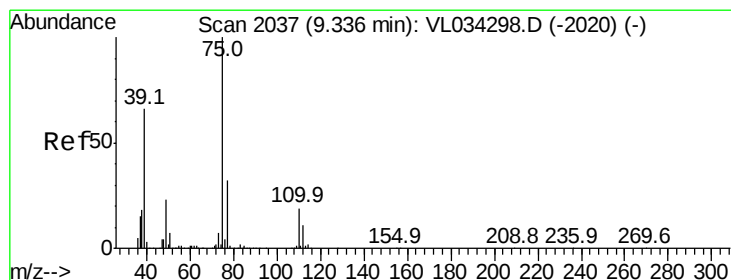
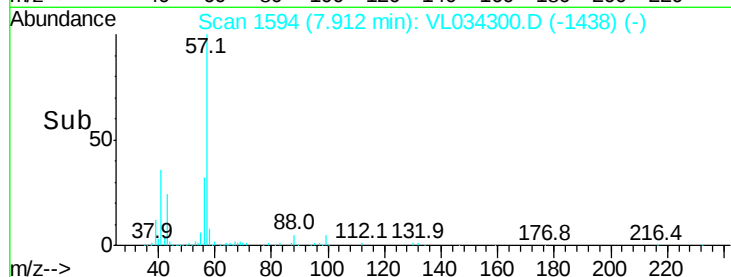
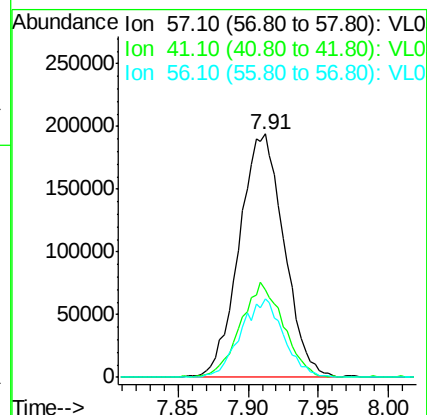
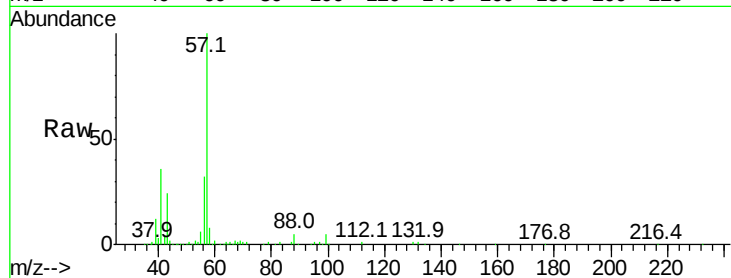




#44
 2,2,4-Trimethylpentane
 Concen: 0.875 ppbv
 RT: 7.91 min Scan# 1594
 Delta R.T. 0.00 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

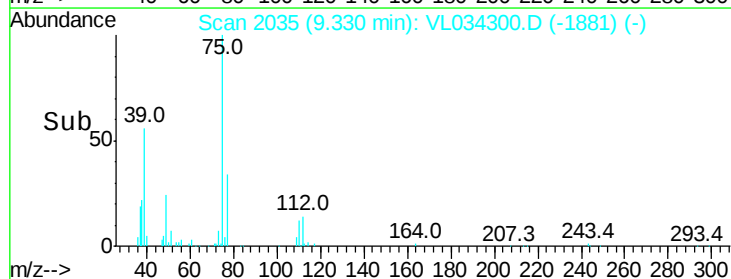
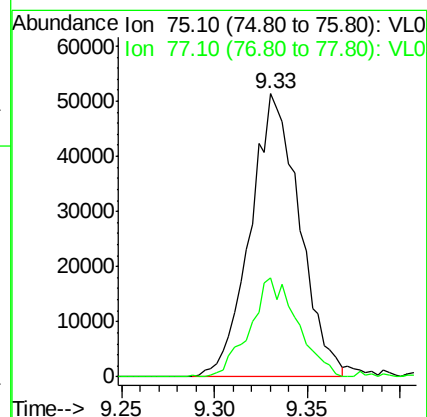
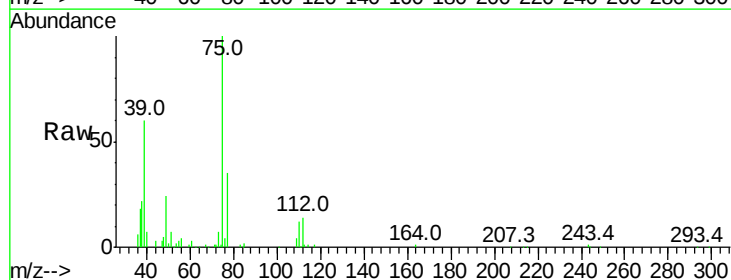
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

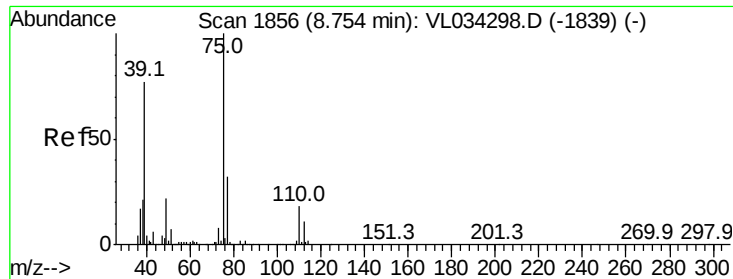
Tgt Ion: 57 Resp: 427395
 Ion Ratio Lower Upper
 57 100
 41 38.1 29.3 43.9
 56 31.4 25.3 37.9



#45
 t-1,3-Dichloropropene
 Concen: 0.766 ppbv
 RT: 9.33 min Scan# 2035
 Delta R.T. -0.01 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

Tgt Ion: 75 Resp: 94846
 Ion Ratio Lower Upper
 75 100
 77 35.1 25.6 38.4

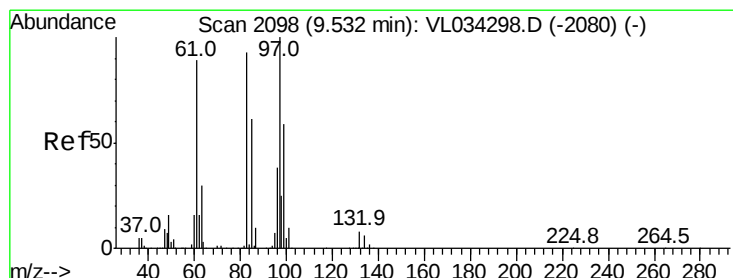
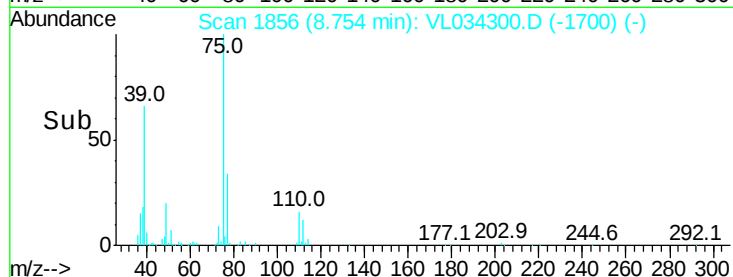
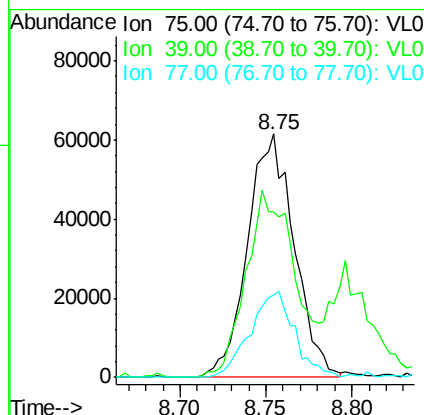
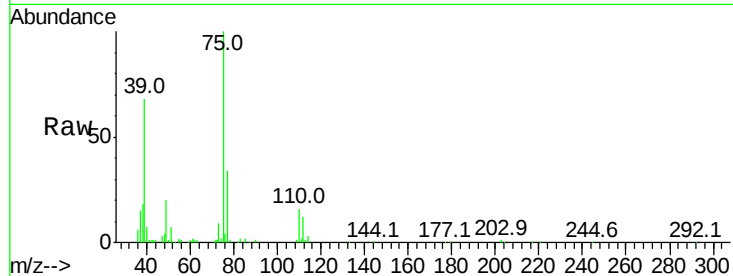




#46
 cis-1,3-Dichloropropene
 Concen: 0.777 ppbv
 RT: 8.75 min Scan# 1856
 Delta R.T. 0.00 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

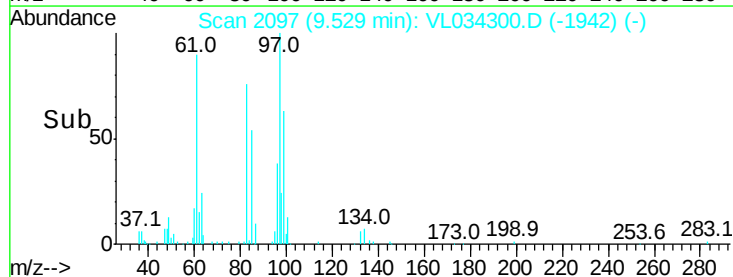
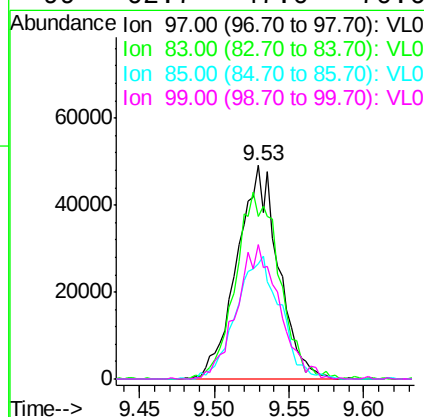
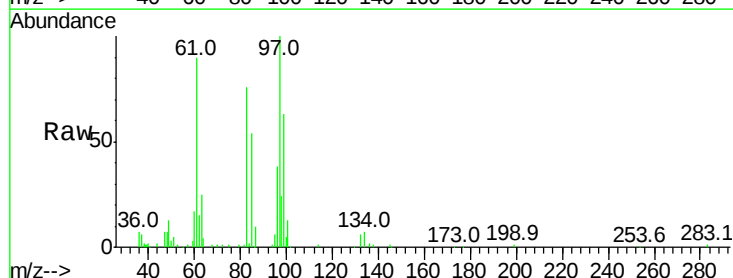
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

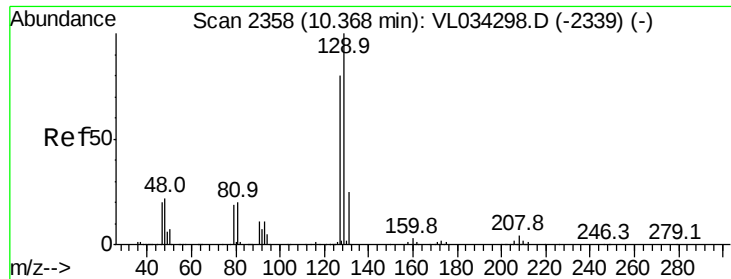
Tgt Ion: 75 Resp: 115767
 Ion Ratio Lower Upper
 75 100
 39 67.8 61.2 91.8
 77 34.0 25.9 38.9



#47
 1,1,2-Trichloroethane
 Concen: 0.928 ppbv
 RT: 9.53 min Scan# 2097
 Delta R.T. -0.00 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

Tgt Ion: 97 Resp: 95007
 Ion Ratio Lower Upper
 97 100
 83 75.9 74.2 111.2
 85 54.2 48.6 73.0
 99 62.7 47.0 70.6





#48

Dibromochloromethane

Concen: 0.908 ppbv

RT: 10.36 min Scan# 2356

Delta R.T. -0.01 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

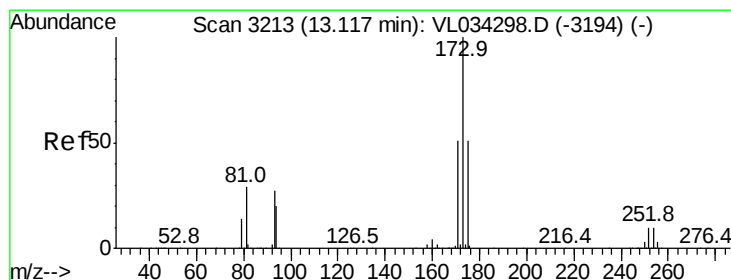
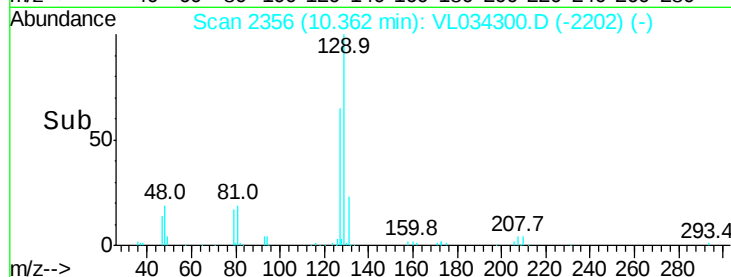
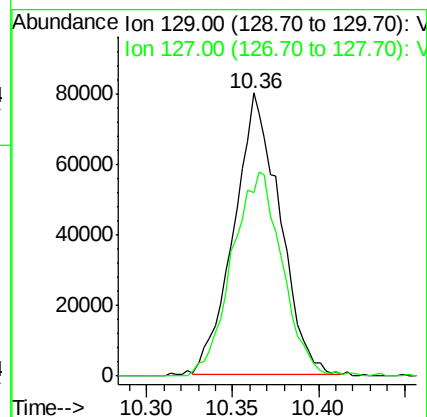
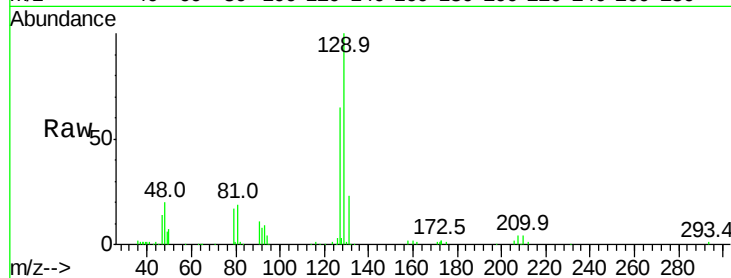
VSTDIC001

Tgt Ion:129 Resp: 147205

Ion Ratio Lower Upper

129 100

127 79.9 39.7 119.1



#49

Bromoform

Concen: 1.005 ppbv

RT: 13.11 min Scan# 3212

Delta R.T. -0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

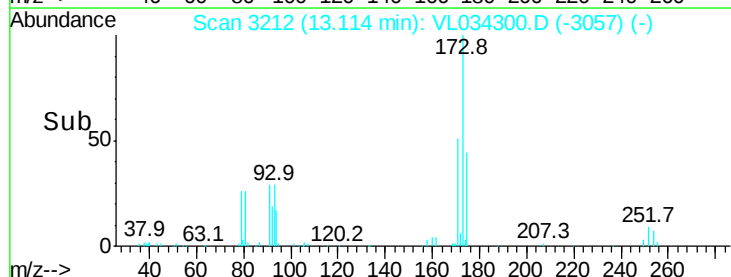
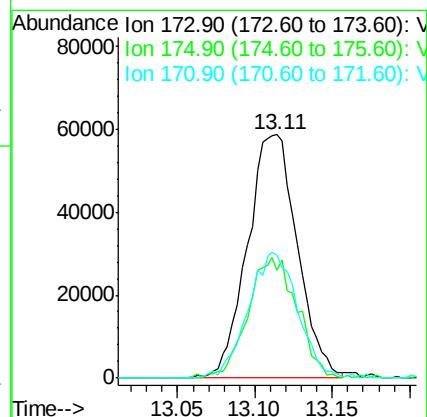
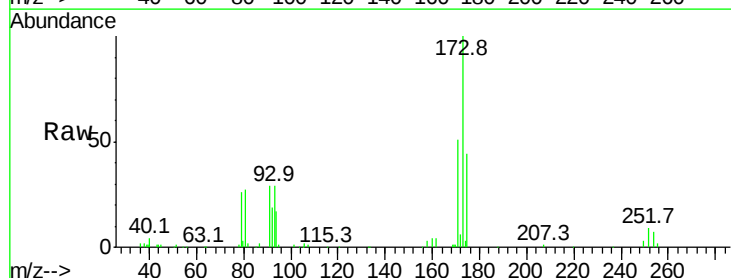
Tgt Ion:173 Resp: 131849

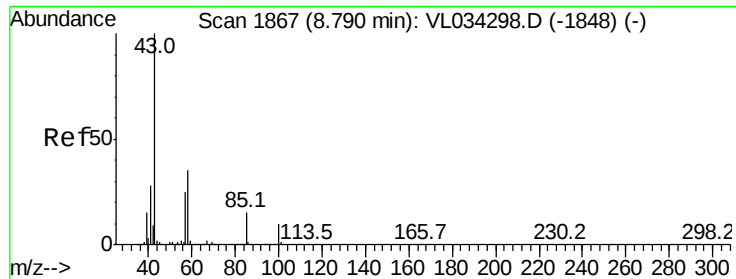
Ion Ratio Lower Upper

173 100

175 49.2 39.8 59.6

171 51.5 41.8 62.6

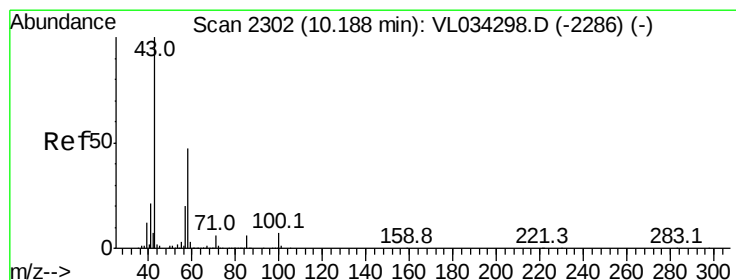
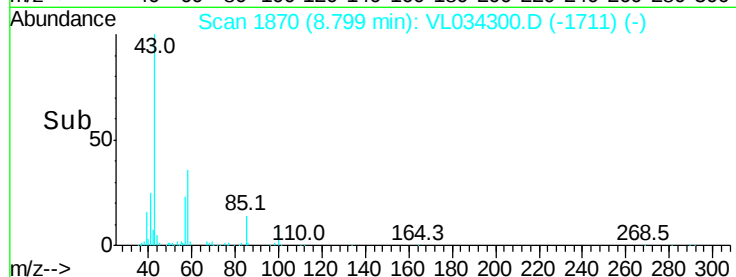
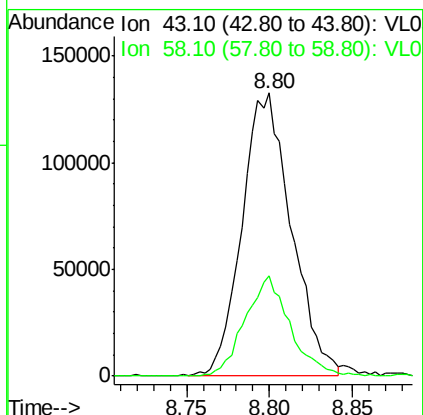
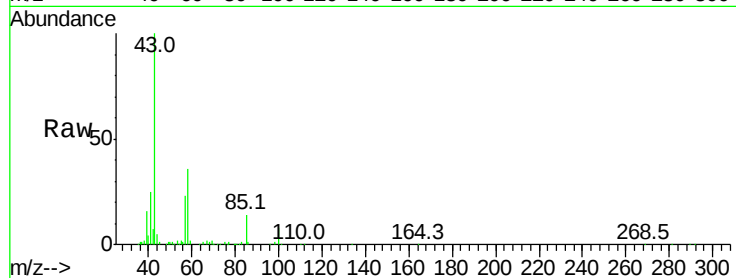




#50
 4-Methyl-2-Pentanone
 Concen: 0.801 ppbv
 RT: 8.80 min Scan# 1870
 Delta R.T. 0.01 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

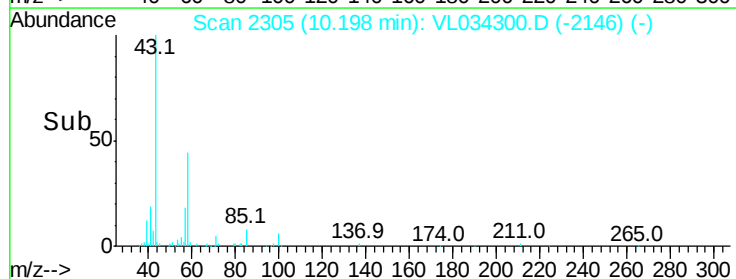
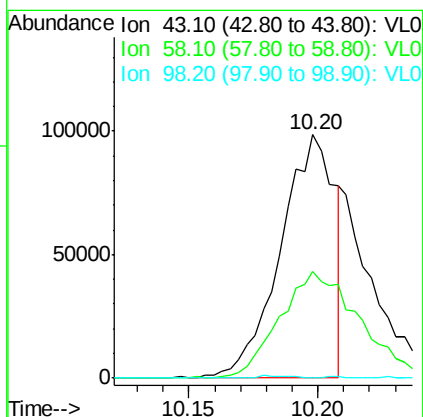
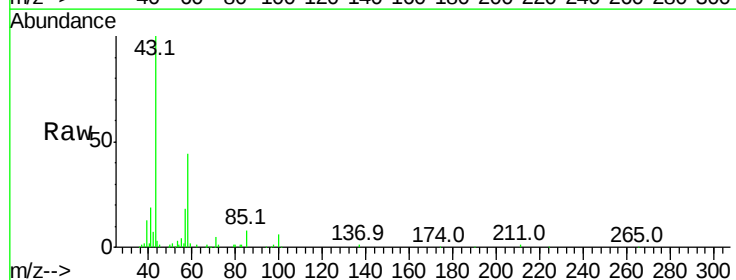
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

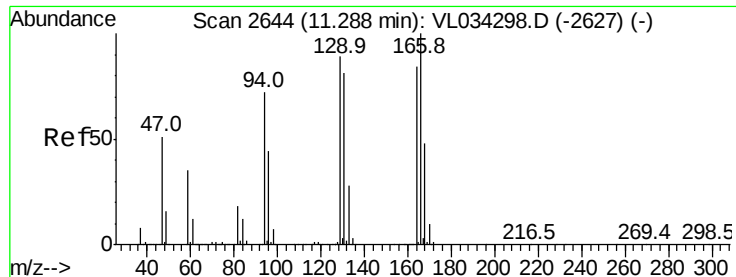
Tgt Ion: 43 Resp: 273413
 Ion Ratio Lower Upper
 43 100
 58 32.8 27.6 41.4



#51
 2-Hexanone
 Concen: 0.499 ppbv
 RT: 10.20 min Scan# 2305
 Delta R.T. 0.01 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

Tgt Ion: 43 Resp: 142957
 Ion Ratio Lower Upper
 43 100
 58 68.2 37.0 55.6#
 98 1.0 0.2 0.2#





#52

Tetrachloroethene

Concen: 0.667 ppbv

RT: 11.29 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:164 Resp: 55926

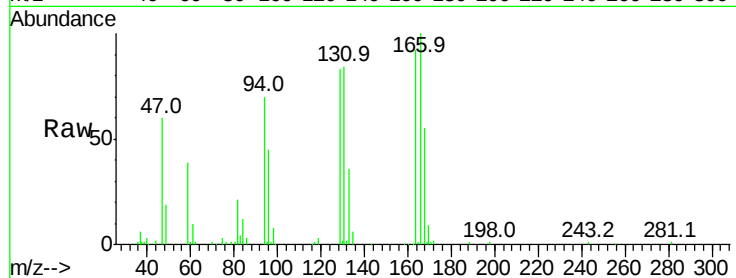
Ion Ratio Lower Upper

164 100

166 105.7 95.3 142.9

129 88.1 84.5 126.7

131 89.2 77.3 115.9

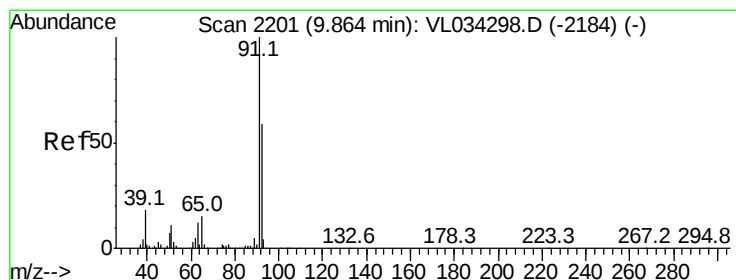
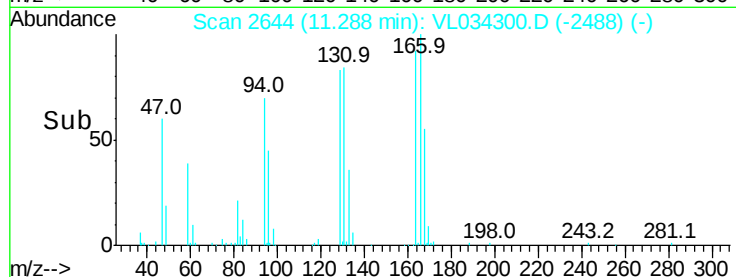
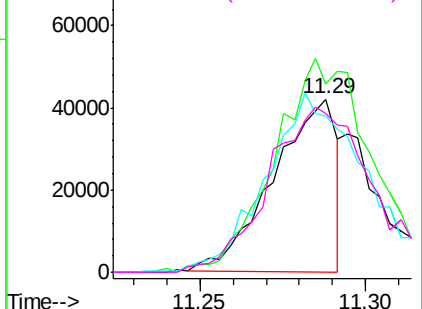


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.871 ppbv

RT: 9.86 min Scan# 2200

Delta R.T. -0.00 min

Lab File: VL034300.D

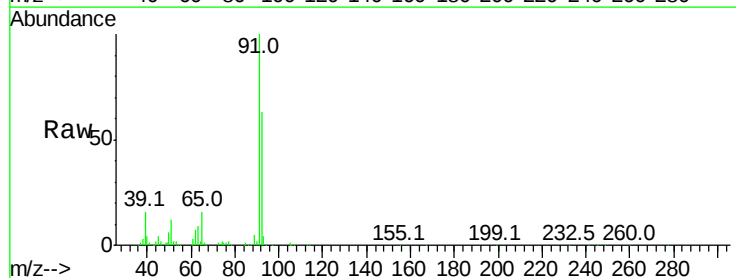
Acq: 16 Oct 2019 14:11

Tgt Ion: 91 Resp: 241544

Ion Ratio Lower Upper

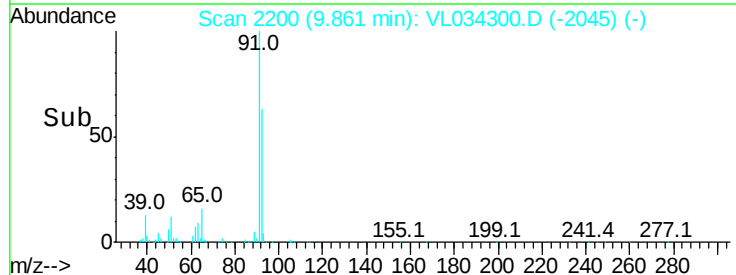
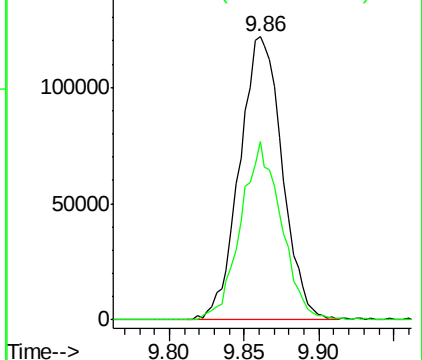
91 100

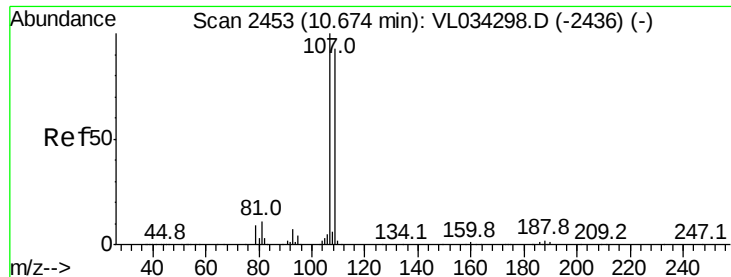
92 59.9 48.4 72.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#54

1,2-Dibromoethane

Concen: 0.462 ppbv

RT: 10.67 min Scan# 2451

Delta R.T. -0.01 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

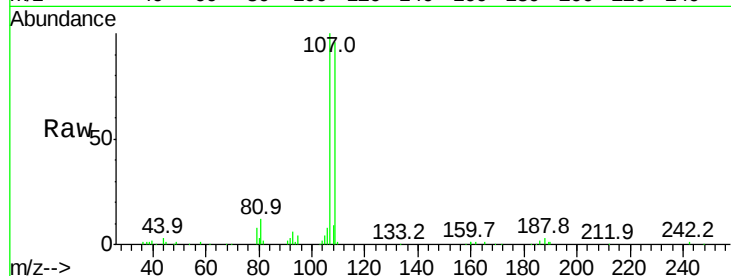
VSTDIC001

Tgt Ion:107 Resp: 70379

Ion Ratio Lower Upper

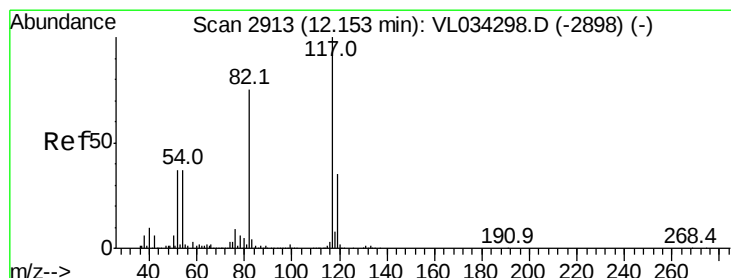
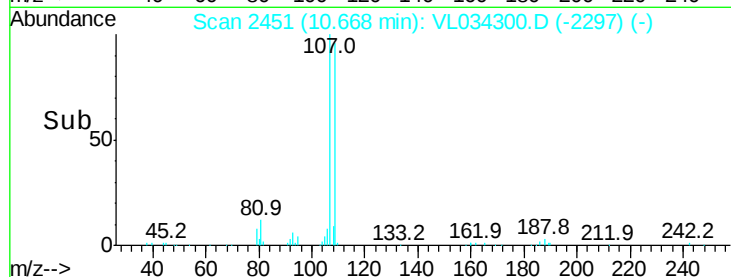
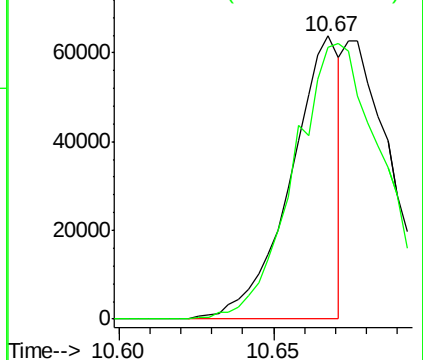
107 100

109 95.8 74.6 112.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.15 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

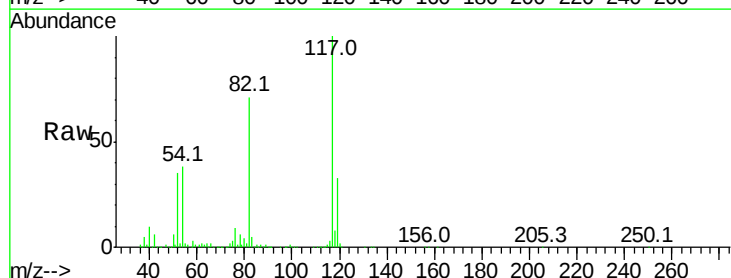
Tgt Ion:117 Resp: 2322712

Ion Ratio Lower Upper

117 100

82 71.5 55.5 83.3

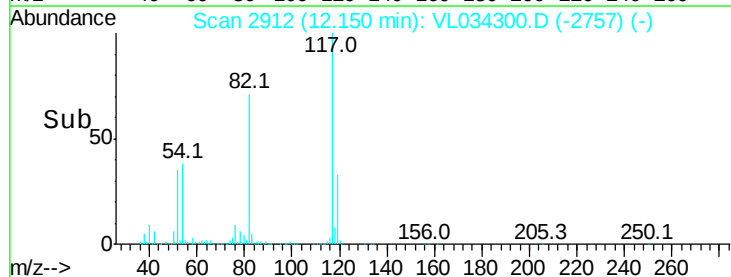
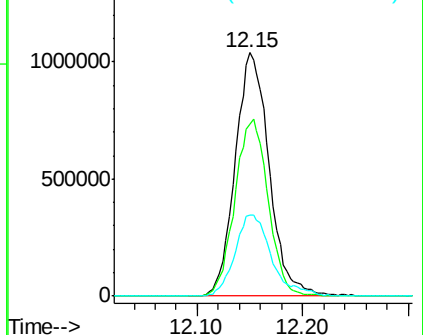
119 35.9 26.5 39.7

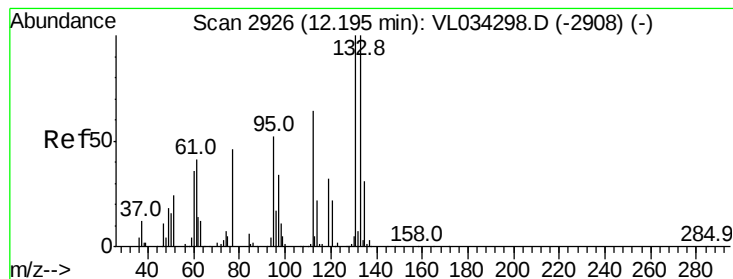


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#56

1,1,1,2-Tetrachloroethane

Concen: 0.594 ppbv

RT: 12.19 min Scan# 2926

Delta R.T. 0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

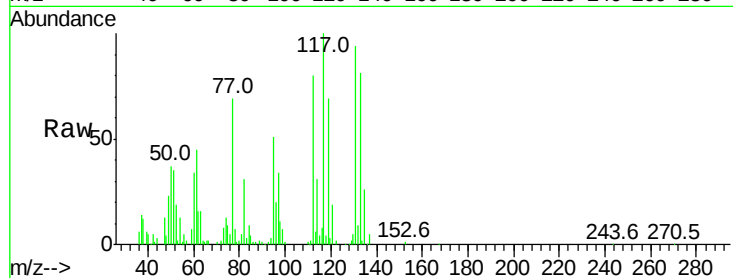
Tgt Ion:131 Resp: 61511

Ion Ratio Lower Upper

131 100

133 176.5 77.1 115.7#

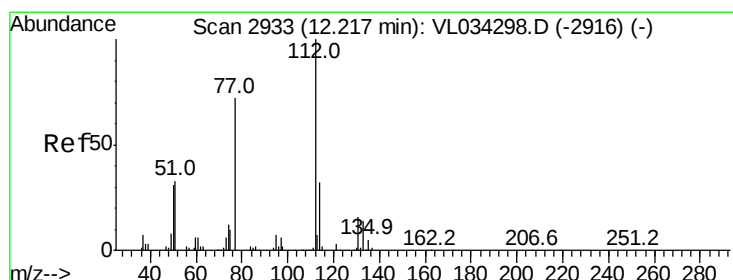
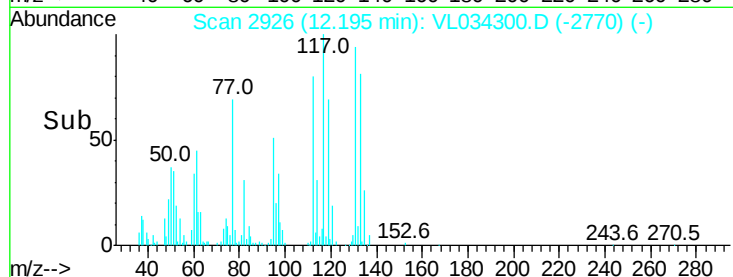
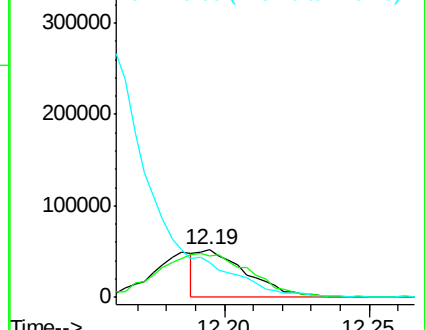
119 0.0 49.0 73.4#



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#57

Chlorobenzene

Concen: 0.596 ppbv

RT: 12.21 min Scan# 2931

Delta R.T. -0.01 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

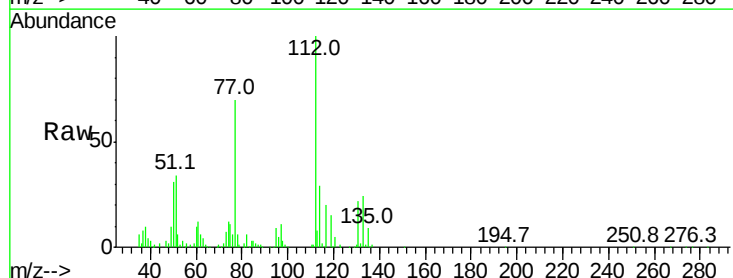
Tgt Ion:112 Resp: 120472

Ion Ratio Lower Upper

112 100

77 62.4 58.6 88.0

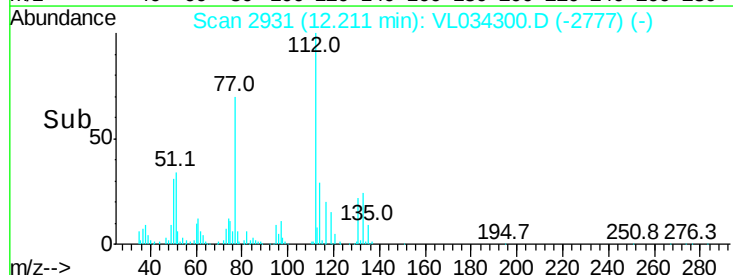
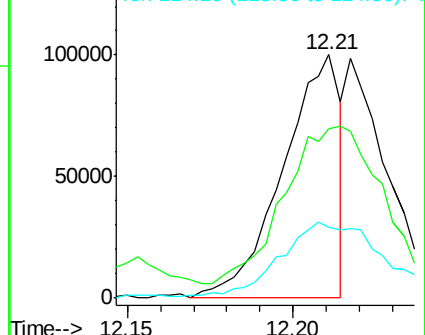
114 28.0 28.6 35.0#

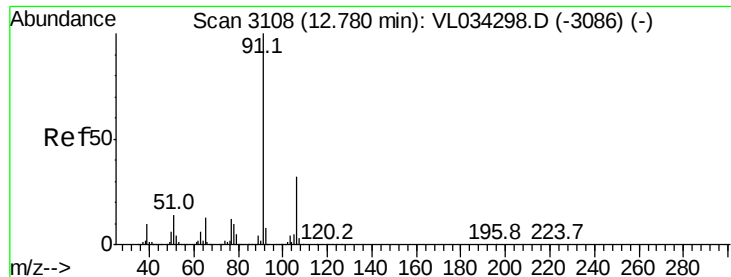


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V





#58

Ethyl Benzene

Concen: 0.919 ppbv

RT: 12.77 min Scan# 3106

Delta R.T. -0.01 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

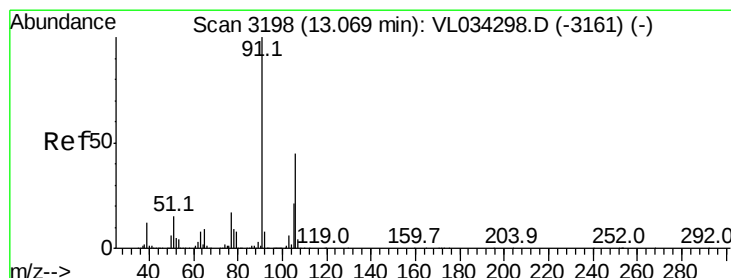
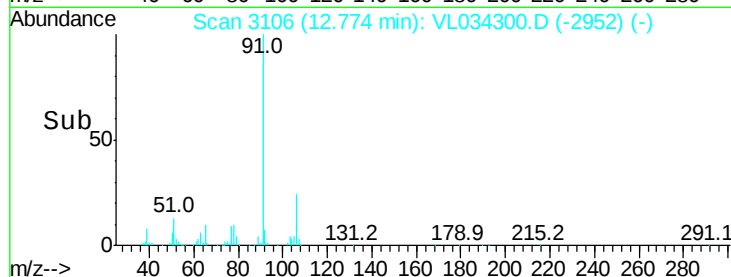
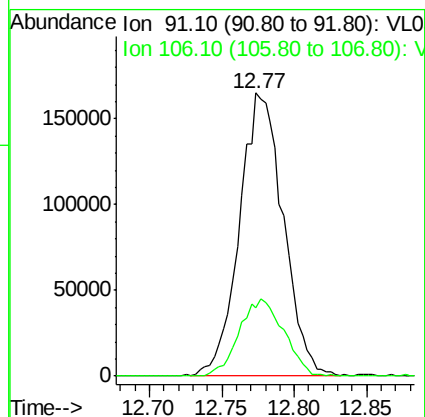
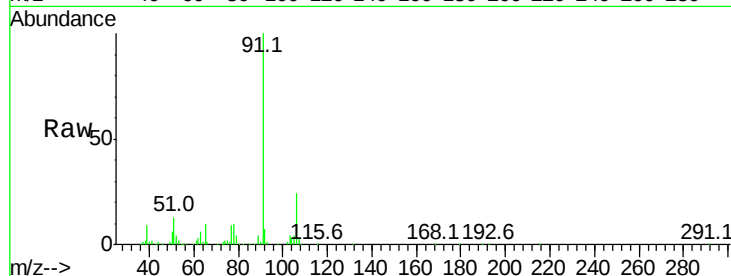
VSTDIC001

Tgt Ion: 91 Resp: 344504

Ion Ratio Lower Upper

91 100

106 24.3 25.3 37.9#



#59

m/p-Xylene

Concen: 0.922 ppbv

RT: 13.06 min Scan# 3195

Delta R.T. -0.01 min

Lab File: VL034300.D

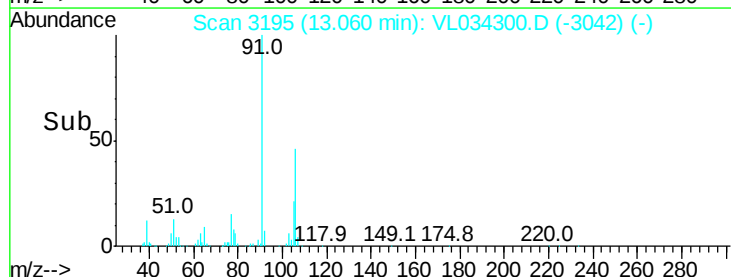
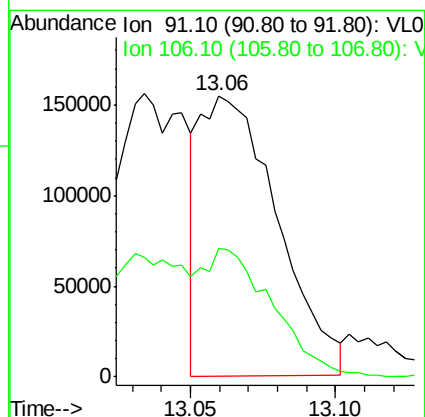
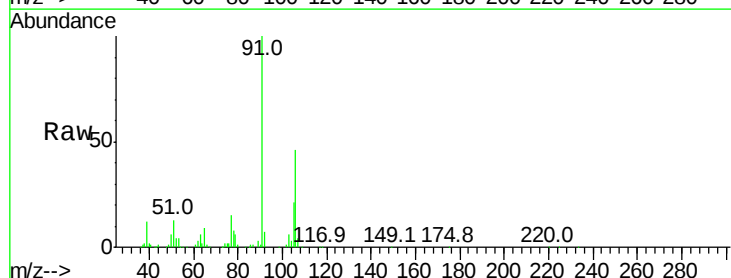
Acq: 16 Oct 2019 14:11

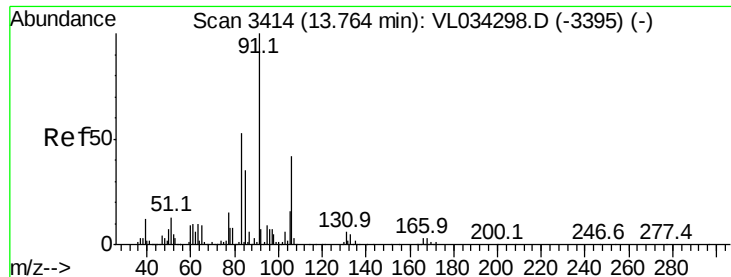
Tgt Ion: 91 Resp: 286327

Ion Ratio Lower Upper

91 100

106 89.5 35.4 53.2#





#60

o-Xylene

Concen: 0.966 ppbv

RT: 13.76 min Scan# 3414

Delta R.T. 0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

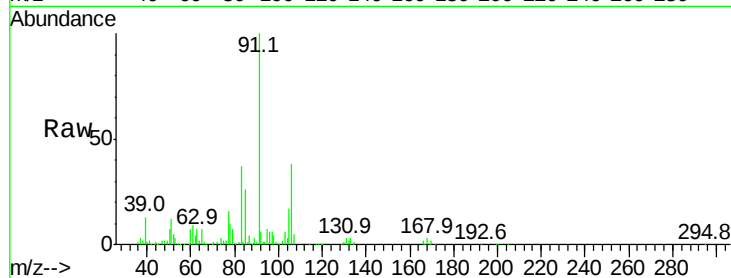
VSTDIC001

Tgt Ion: 91 Resp: 299741

Ion Ratio Lower Upper

91 100

106 40.8 21.6 64.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.76

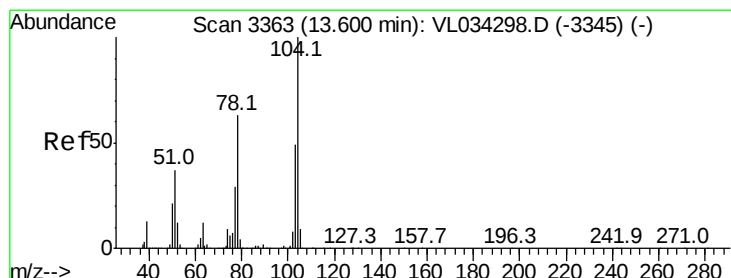
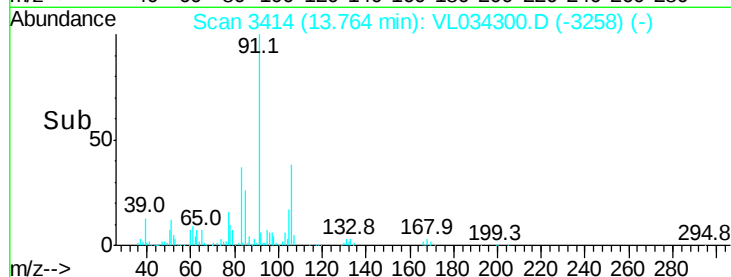
150000

100000

50000

0

Time--> 13.65 13.70 13.75 13.80



#61

Styrene

Concen: 0.914 ppbv

RT: 13.60 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

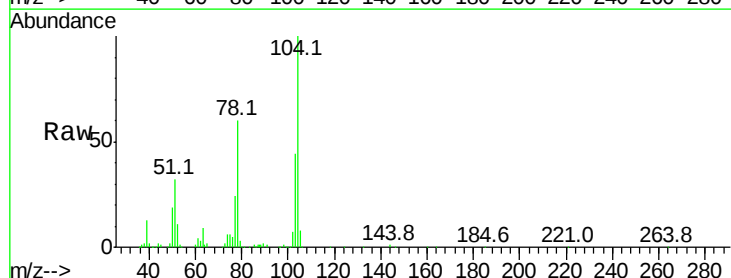
Tgt Ion: 104 Resp: 203295

Ion Ratio Lower Upper

104 100

78 61.7 47.8 71.8

103 48.0 39.0 58.6



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

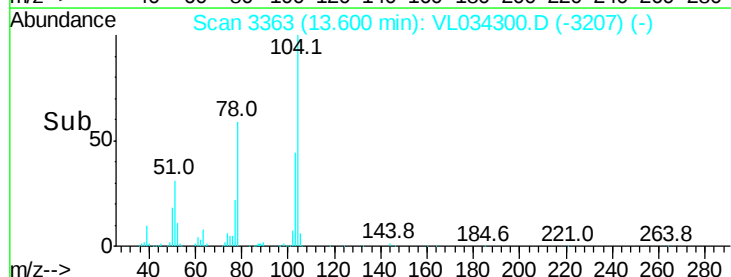
13.60

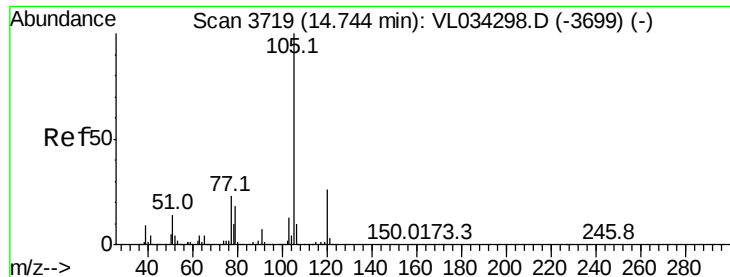
100000

50000

0

Time--> 13.55 13.60 13.65





#62

Isopropylbenzene

Concen: 0.391 ppbv

RT: 14.74 min Scan# 3719

Delta R.T. 0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

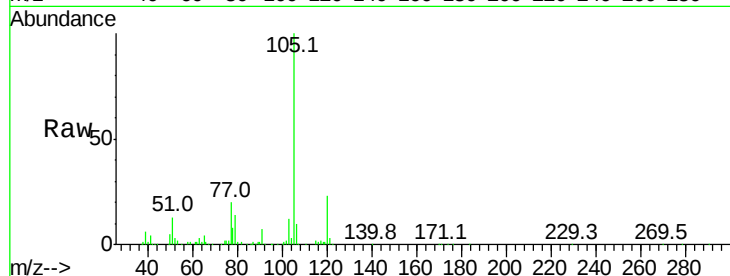
VSTDIC001

Tgt Ion: 105 Resp: 156950

Ion Ratio Lower Upper

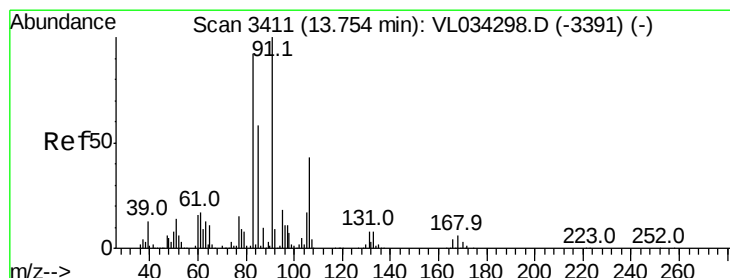
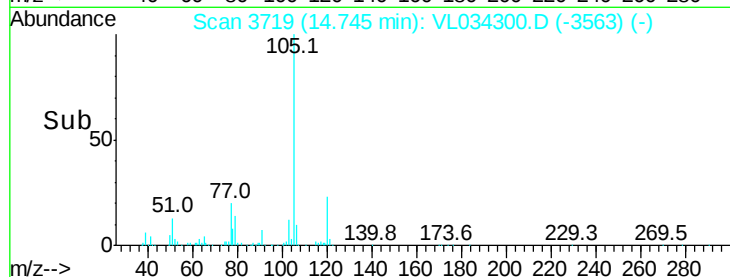
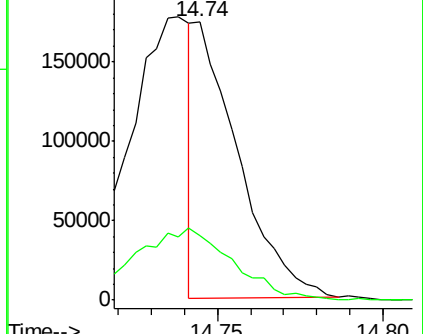
105 100

120 61.6 20.8 31.2#



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: 0.887 ppbv

RT: 13.75 min Scan# 3409

Delta R.T. -0.01 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

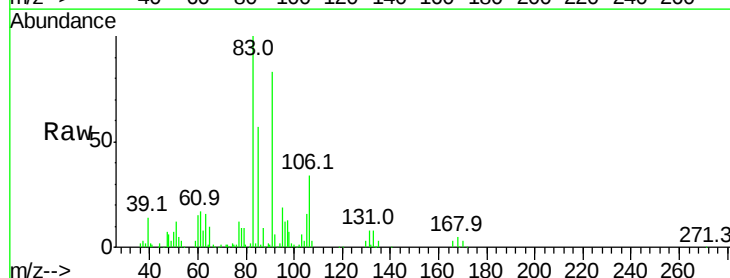
Tgt Ion: 83 Resp: 225857

Ion Ratio Lower Upper

83 100

131 9.2 4.8 14.4

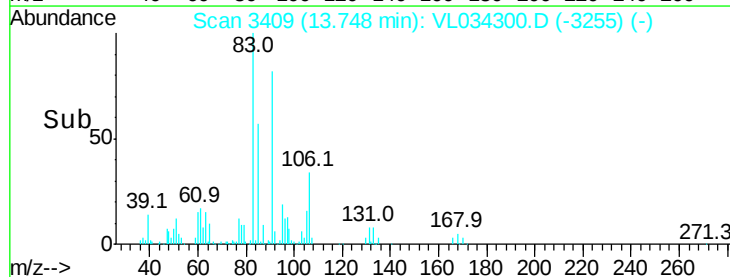
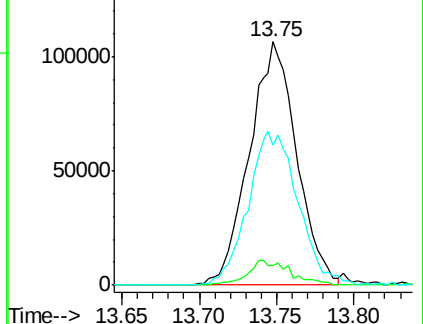
85 66.9 32.5 97.4

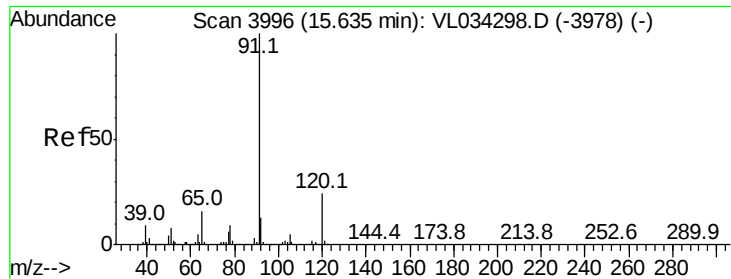


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0





#64

n-propylbenzene

Concen: 0.519 ppbv

RT: 15.63 min Scan# 3995

Delta R.T. -0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

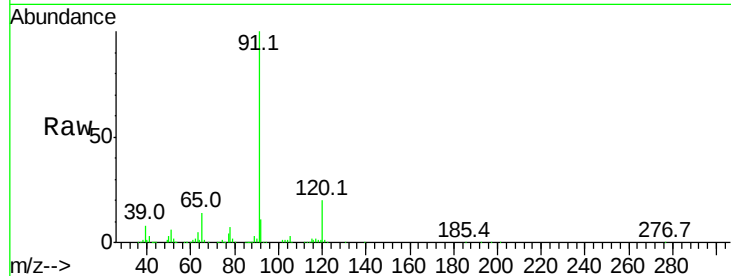
VSTDIC001

Tgt Ion:120 Resp: 52721

Ion Ratio Lower Upper

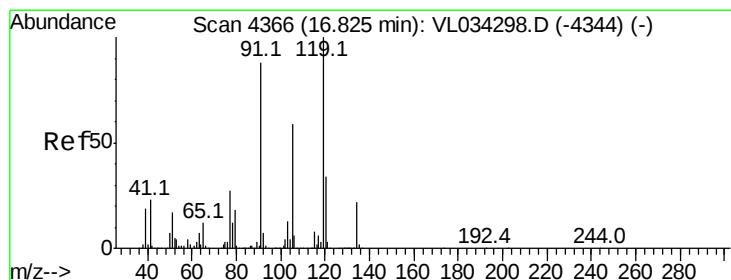
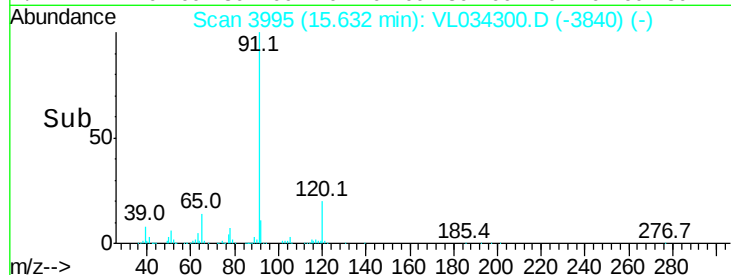
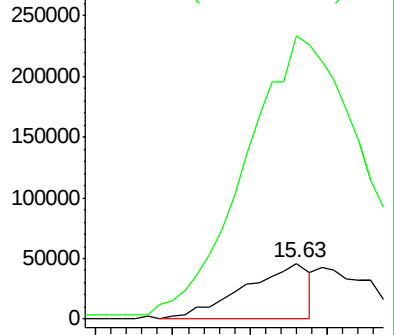
120 100

91 969.0 374.9 562.3#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.518 ppbv

RT: 16.82 min Scan# 4365

Delta R.T. -0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

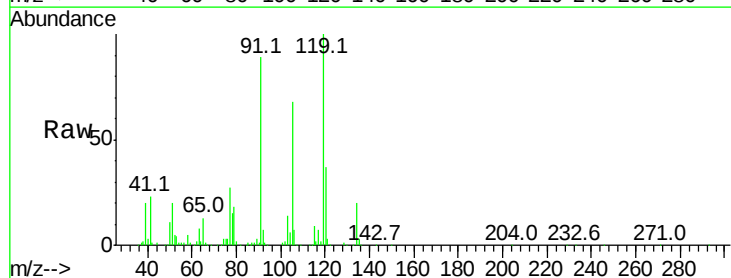
Tgt Ion:119 Resp: 181851

Ion Ratio Lower Upper

119 100

91 185.0 71.4 107.0#

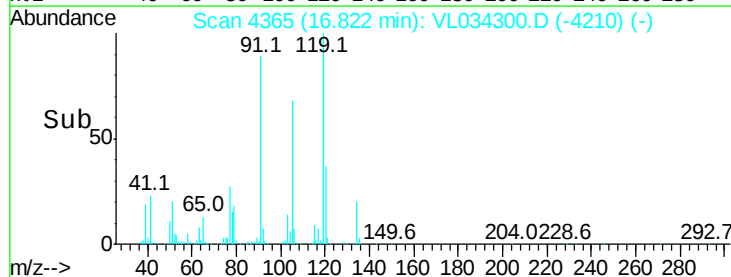
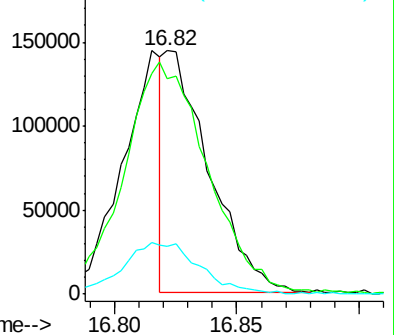
134 0.0 15.9 23.9#

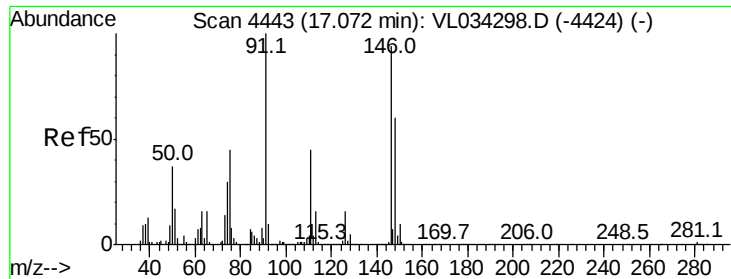


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V





#66

Benzyl Chloride

Concen: 0.764 ppbv

RT: 17.07 min Scan# 4441

Delta R.T. -0.01 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

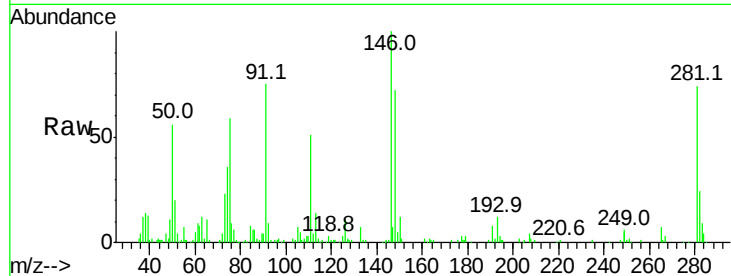
Tgt Ion: 91 Resp: 94844

Ion Ratio Lower Upper

91 100

126 19.7 12.9 19.3#

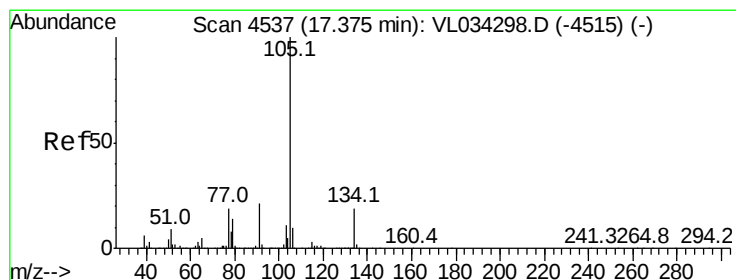
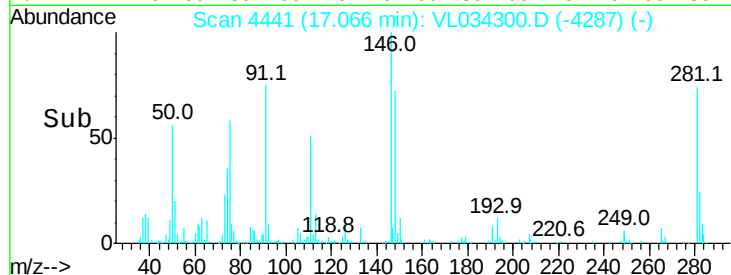
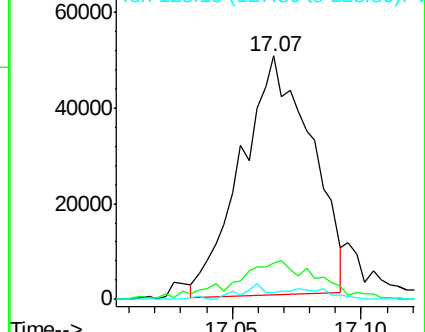
128 5.4 4.3 6.5



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: 0.498 ppbv

RT: 17.37 min Scan# 4537

Delta R.T. 0.00 min

Lab File: VL034300.D

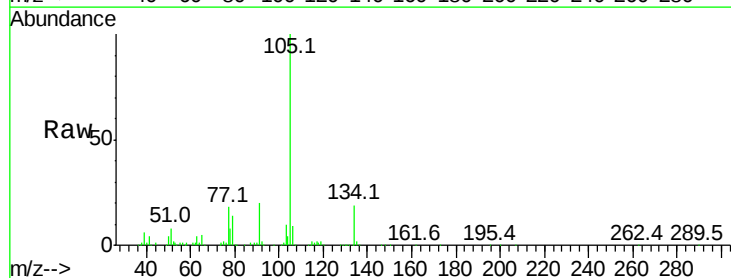
Acq: 16 Oct 2019 14:11

Tgt Ion:105 Resp: 249856

Ion Ratio Lower Upper

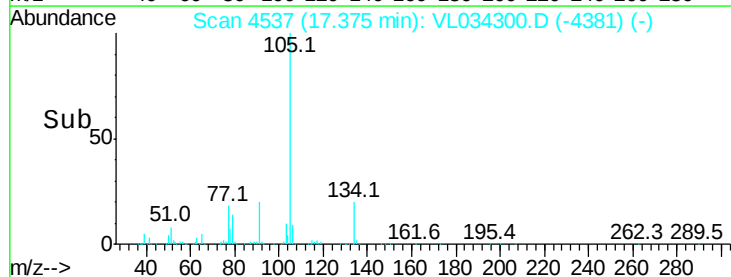
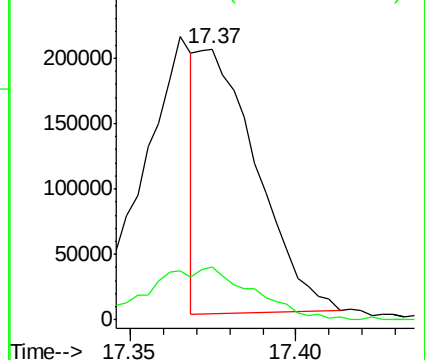
105 100

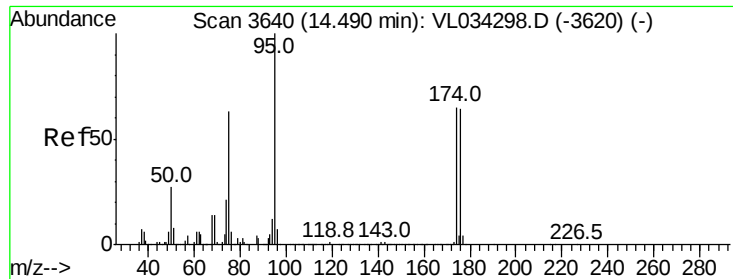
134 36.8 15.4 23.0#



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: 9.904 ppbv

RT: 14.49 min Scan# 3639

Delta R.T. -0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

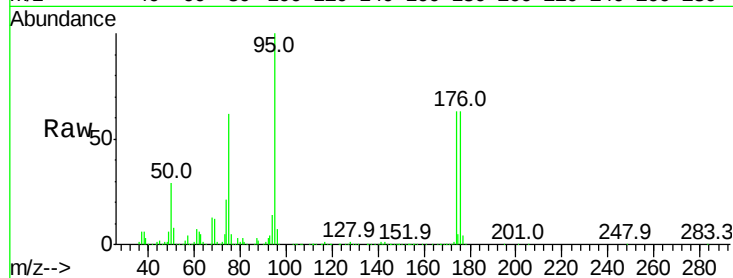
Tgt Ion: 95 Resp: 1998817

Ion Ratio Lower Upper

95 100

174 64.9 52.6 78.8

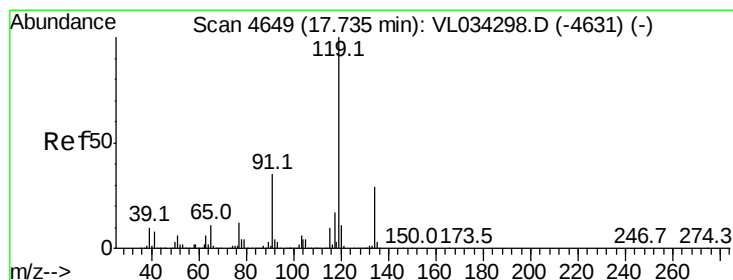
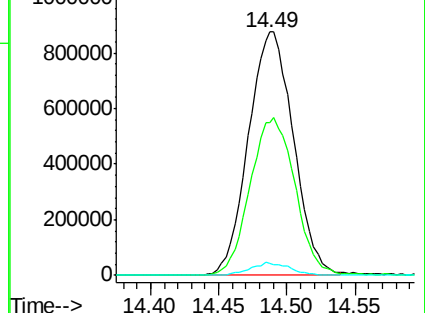
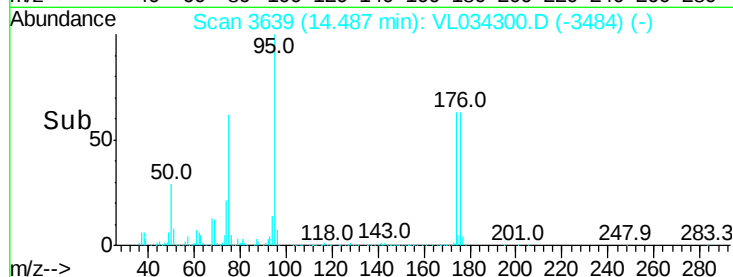
175 4.7 3.8 5.6



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: 0.989 ppbv

RT: 17.73 min Scan# 4648

Delta R.T. -0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

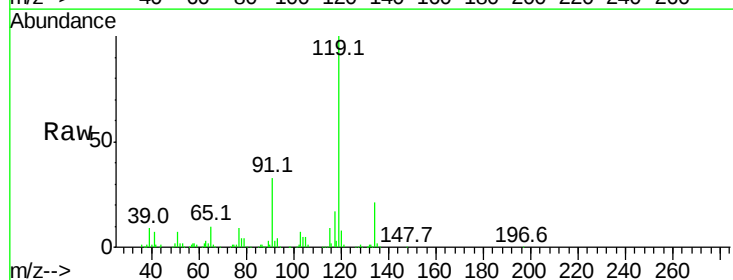
Tgt Ion: 119 Resp: 401961

Ion Ratio Lower Upper

119 100

134 25.0 21.3 31.9

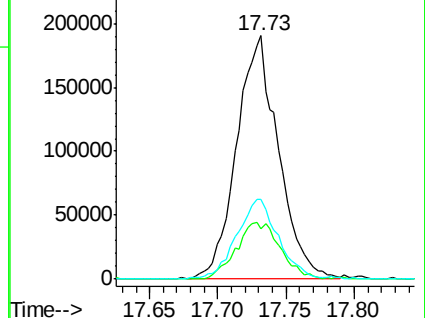
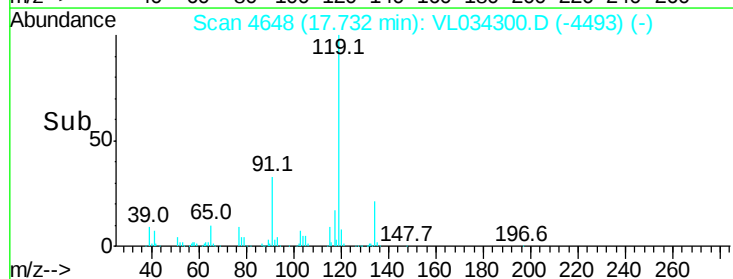
91 33.4 26.6 39.8

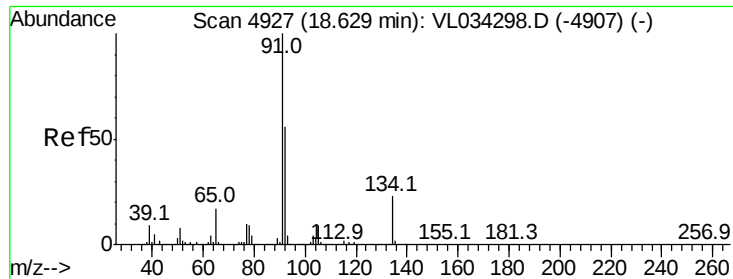


Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): VL0

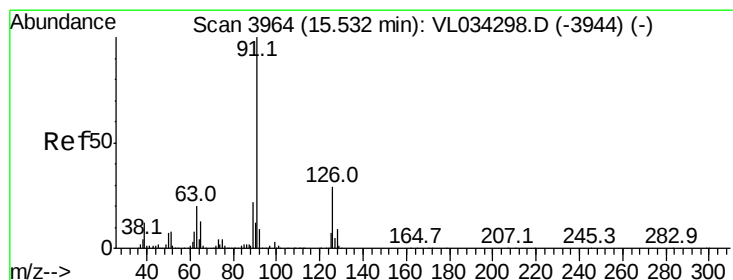
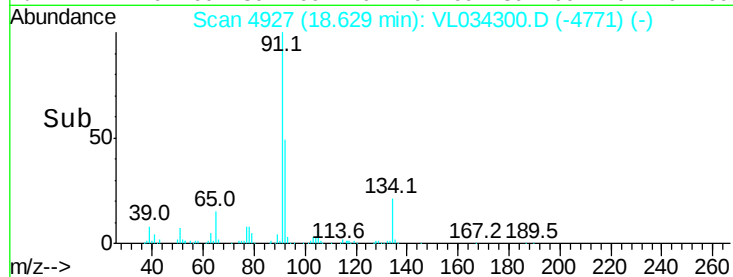
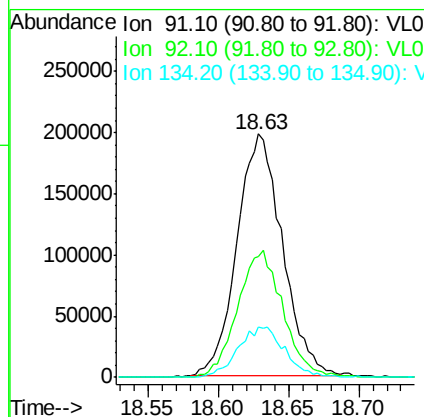
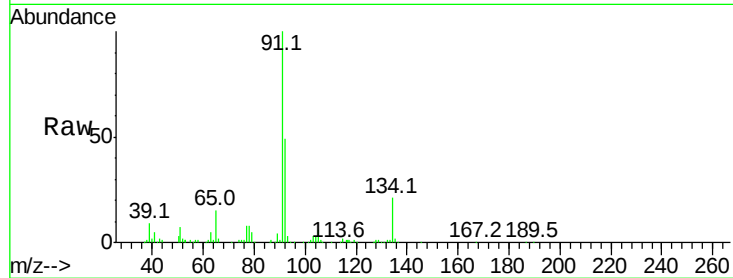




#70
n-Butylbenzene
Concen: 0.935 ppbv
RT: 18.63 min Scan# 4927
Delta R.T. 0.00 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

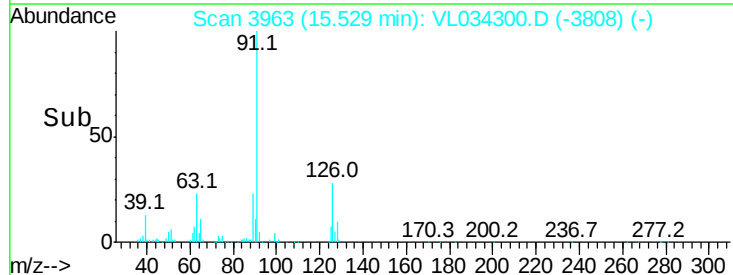
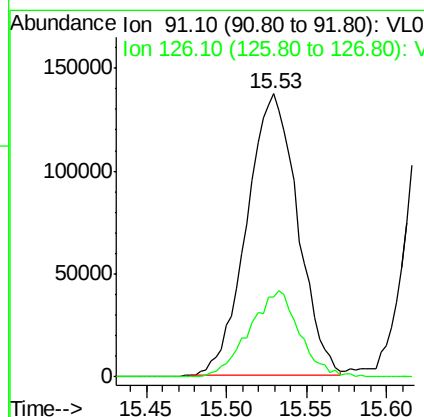
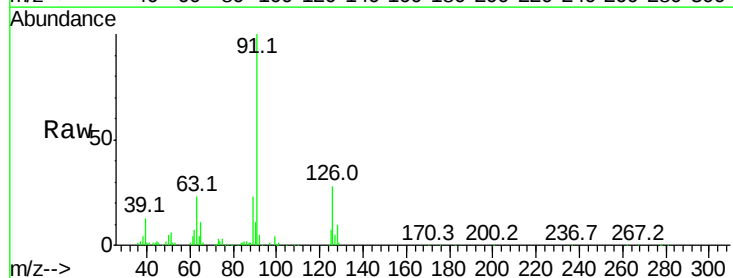
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

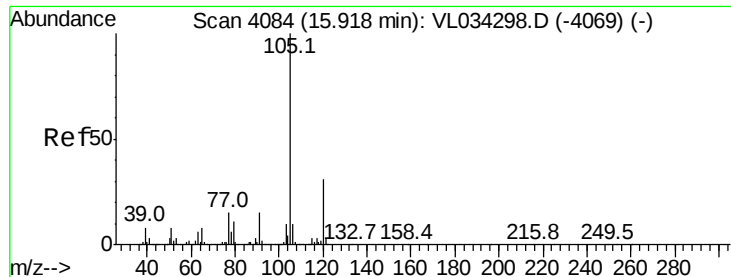
Tgt Ion: 91 Resp: 442677
Ion Ratio Lower Upper
91 100
92 52.9 44.5 66.7
134 21.7 18.2 27.2



#71
2-Chlorotoluene
Concen: 0.905 ppbv
RT: 15.53 min Scan# 3963
Delta R.T. -0.00 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

Tgt Ion: 91 Resp: 297194
Ion Ratio Lower Upper
91 100
126 30.5 11.9 47.5





#72

4-Ethyltoluene

Concen: 0.961 ppbv

RT: 15.91 min Scan# 4082

Delta R.T. -0.01 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

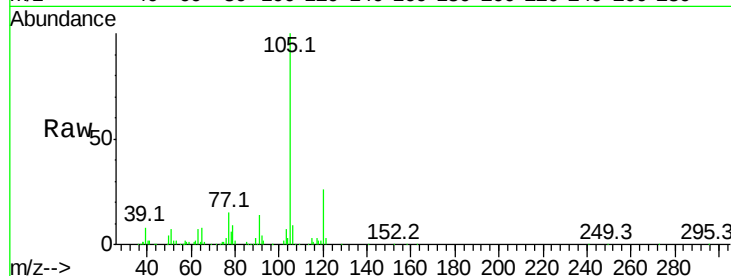
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:	105	Resp:	337140
Ion	Ratio	Lower	Upper
105	100		
120	29.6	23.8	35.8
91	15.8	11.2	16.8
77	16.0	12.8	19.2

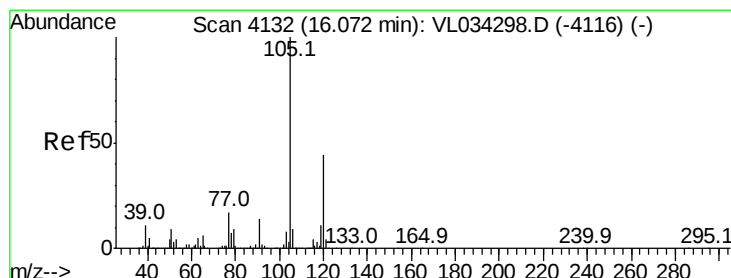
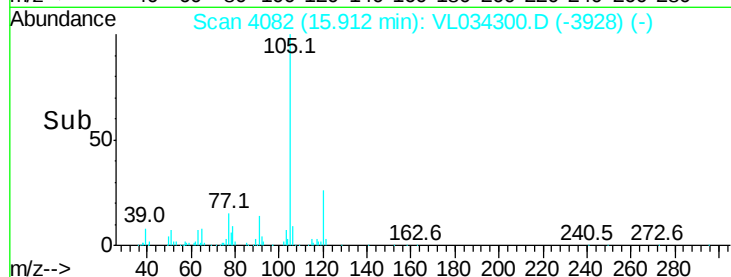
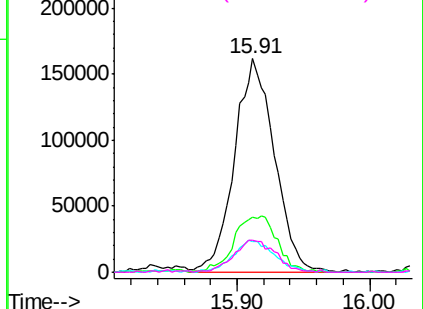


Abundance Ion 105.10 (104.80 to 105.80): V

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: 1.001 ppbv

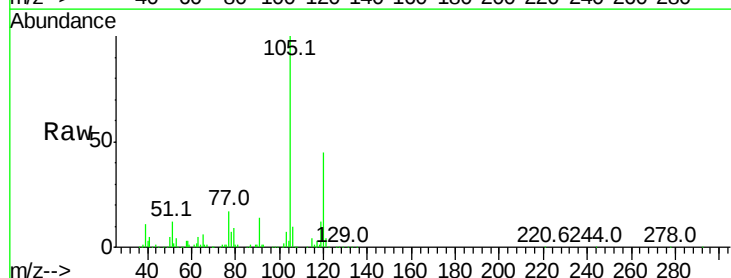
RT: 16.07 min Scan# 4132

Delta R.T. 0.00 min

Lab File: VL034300.D

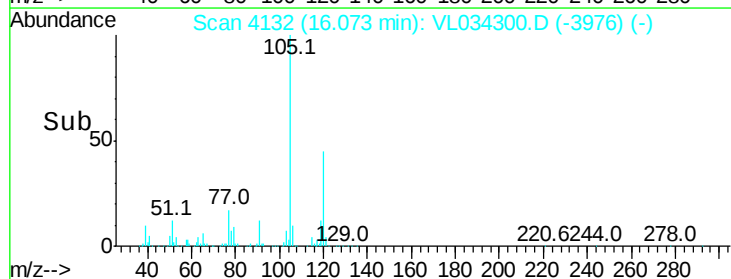
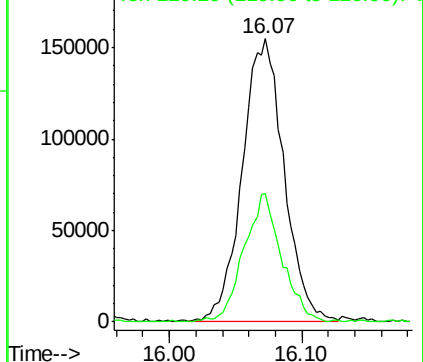
Acq: 16 Oct 2019 14:11

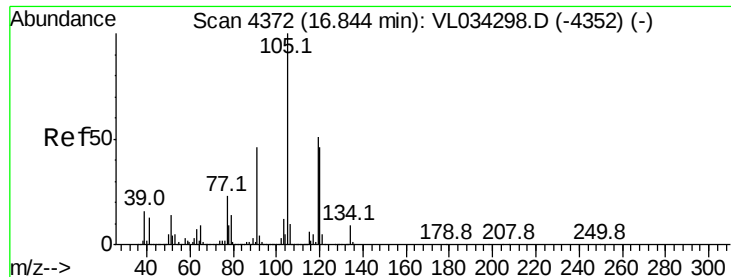
Tgt Ion:	105	Resp:	339179
Ion	Ratio	Lower	Upper
105	100		
120	45.2	35.2	52.8



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: 0.494 ppbv

RT: 16.84 min Scan# 4370

Delta R.T. -0.01 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 177873

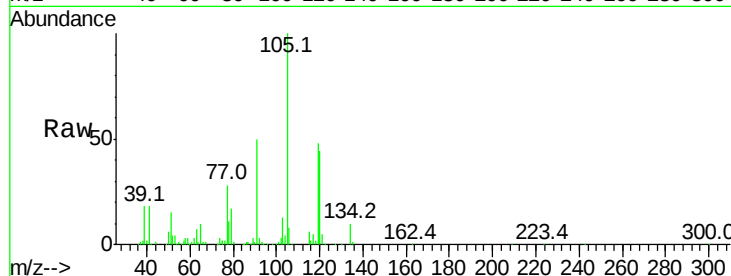
Ion Ratio Lower Upper

105 100

120 45.0 37.0 55.6

91 50.0 38.2 57.2

77 27.5 19.0 28.4

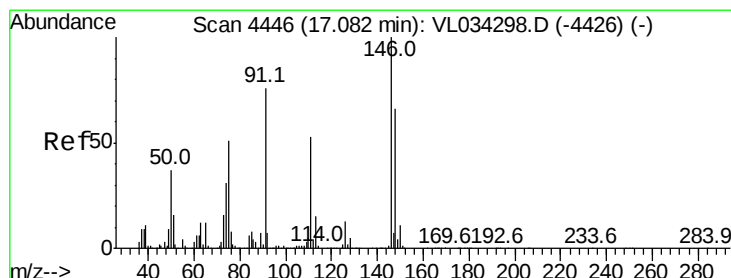
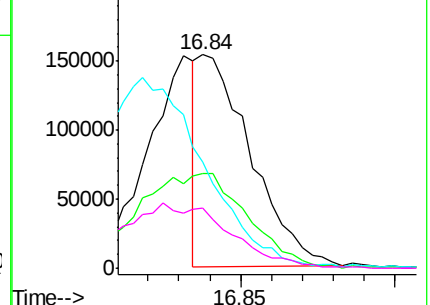
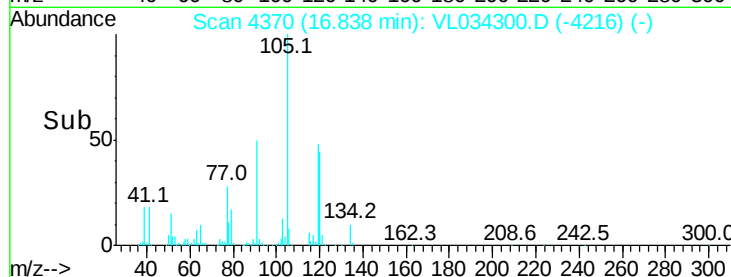


Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.674 ppbv

RT: 17.08 min Scan# 4444

Delta R.T. -0.01 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

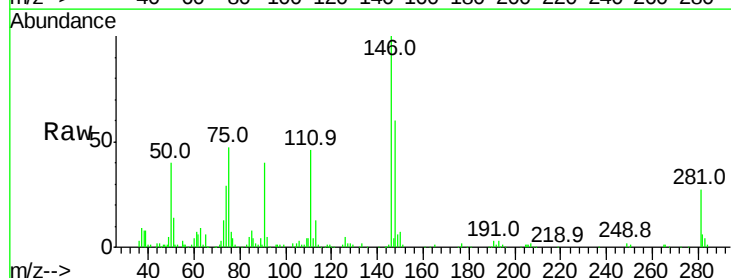
Tgt Ion:146 Resp: 130015

Ion Ratio Lower Upper

146 100

111 76.6 24.5 73.5#

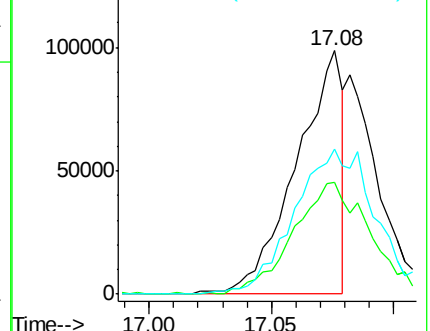
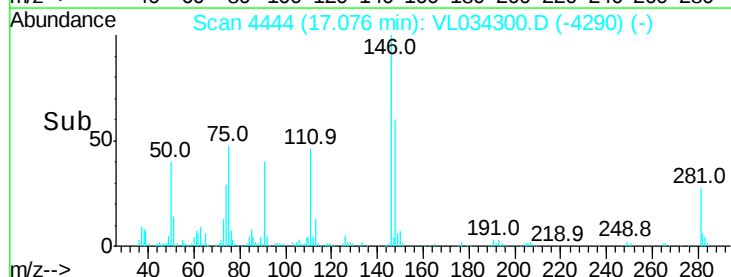
148 105.4 32.3 96.8#

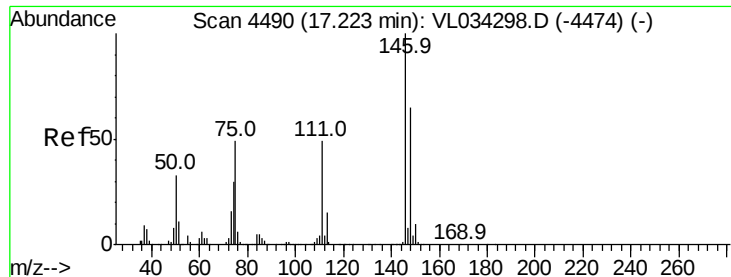


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

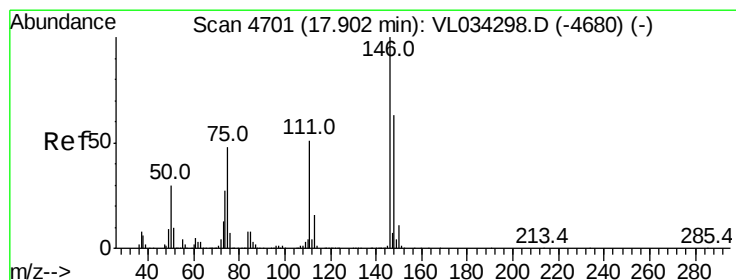
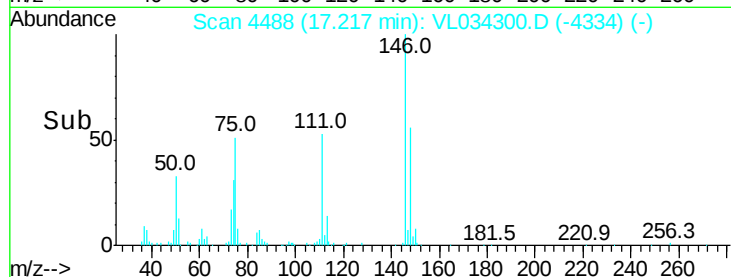
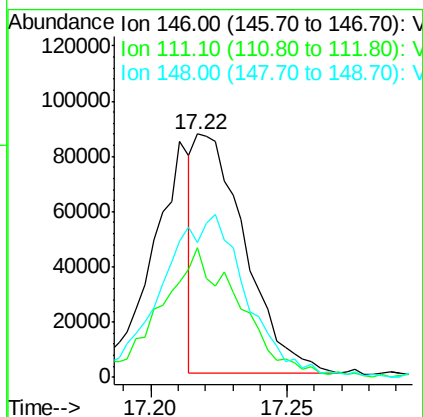
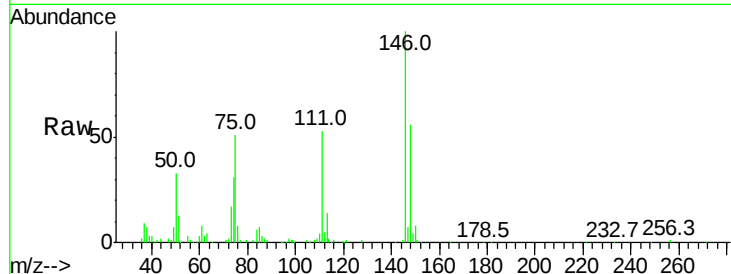




#76
 1,4-Dichlorobenzene
 Concen: 0.559 ppbv
 RT: 17.22 min Scan# 4488
 Delta R.T. -0.01 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

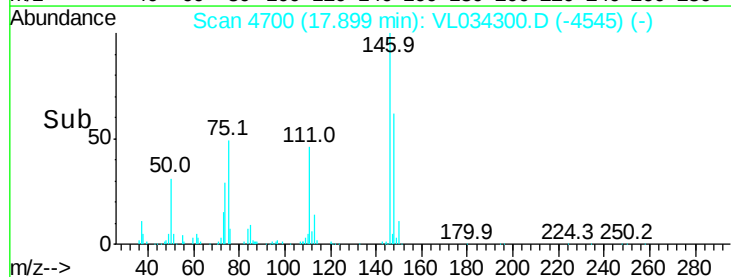
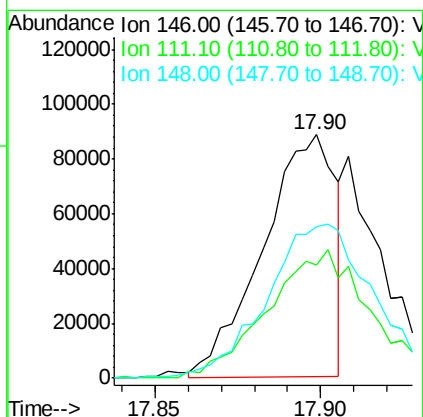
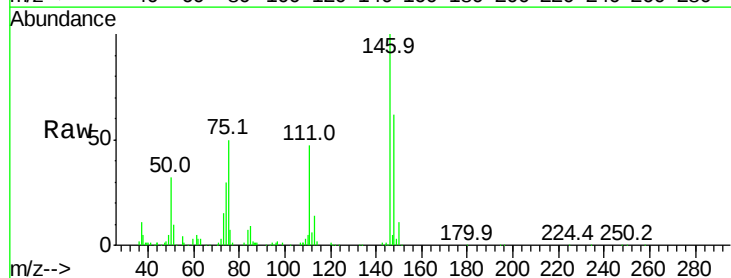
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

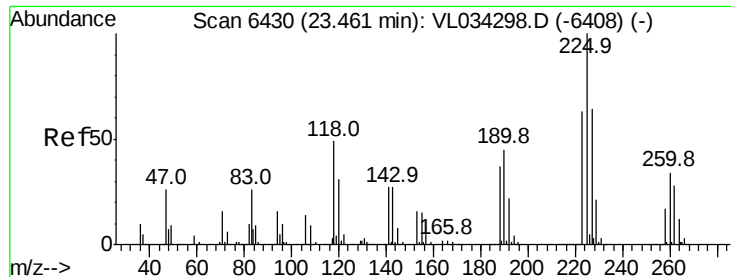
Tgt Ion:146 Resp: 110549
 Ion Ratio Lower Upper
 146 100
 111 87.6 23.9 71.7#
 148 116.4 33.1 99.2#



#77
 1,2-Dichlorobenzene
 Concen: 0.690 ppbv
 RT: 17.90 min Scan# 4700
 Delta R.T. -0.00 min
 Lab File: VL034300.D
 Acq: 16 Oct 2019 14:11

Tgt Ion:146 Resp: 134753
 Ion Ratio Lower Upper
 146 100
 111 75.5 25.1 75.3#
 148 95.3 32.3 96.8





#78

Hexachloro-1,3-Butadiene

Concen: 1.281 ppbv

RT: 23.46 min Scan# 6430

Delta R.T. 0.00 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

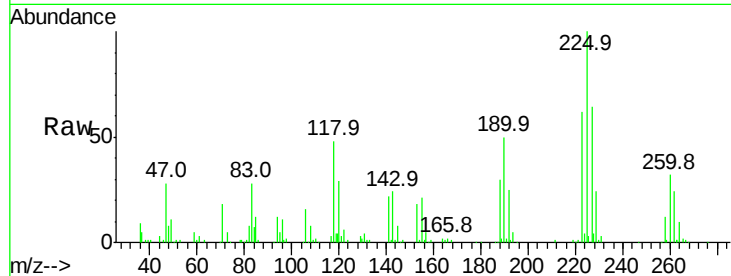
Tgt Ion:225 Resp: 165746

Ion Ratio Lower Upper

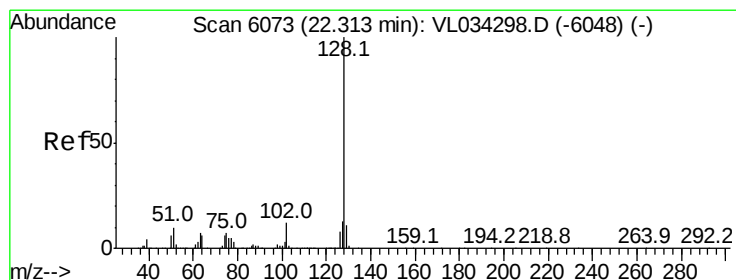
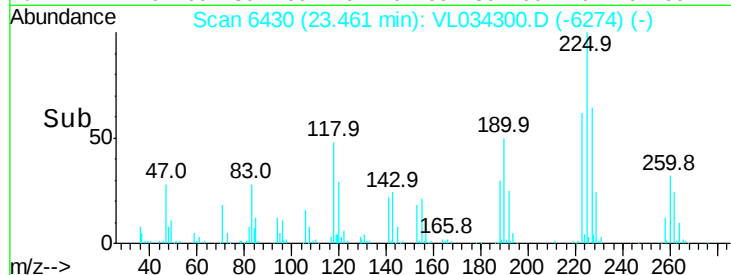
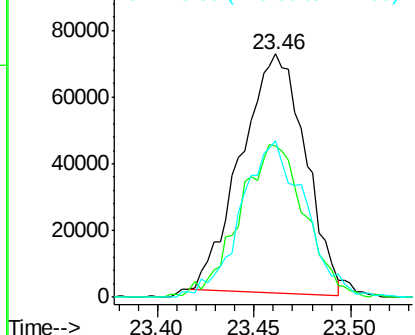
225 100

223 65.6 50.8 76.2

227 65.1 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: 0.392 ppbv

RT: 22.31 min Scan# 6071

Delta R.T. -0.01 min

Lab File: VL034300.D

Acq: 16 Oct 2019 14:11

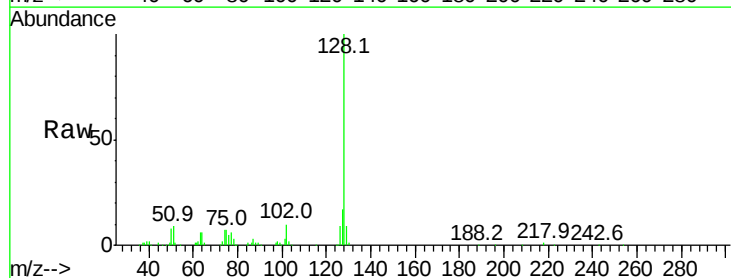
Tgt Ion:128 Resp: 124194

Ion Ratio Lower Upper

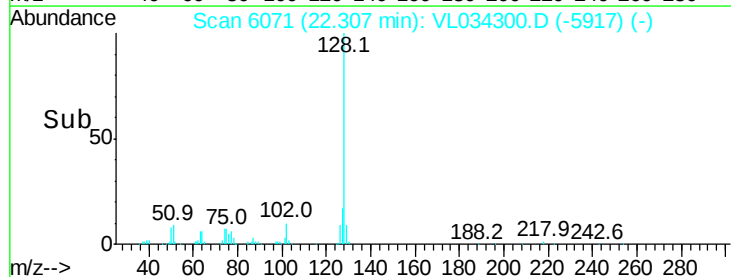
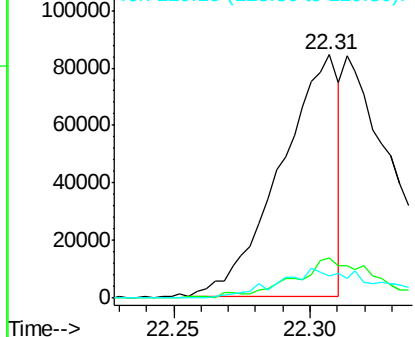
128 100

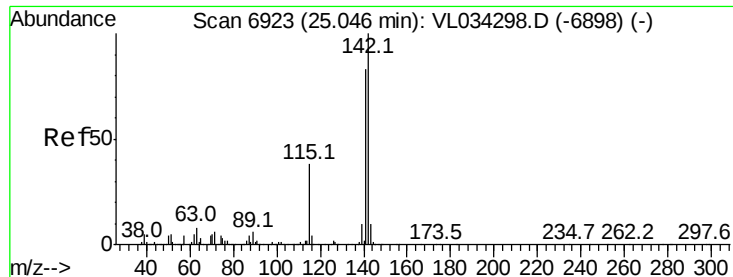
127 16.2 10.2 15.4#

129 9.2 8.9 13.3



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

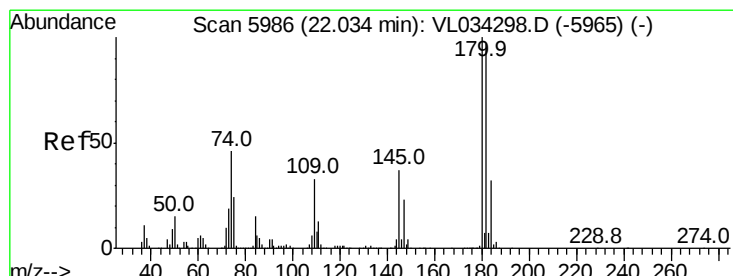
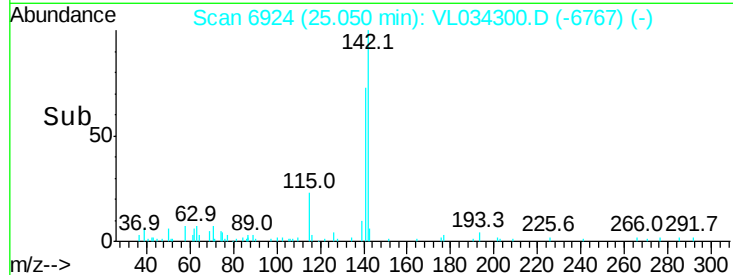
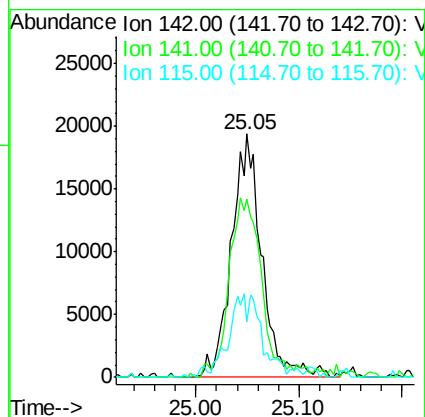
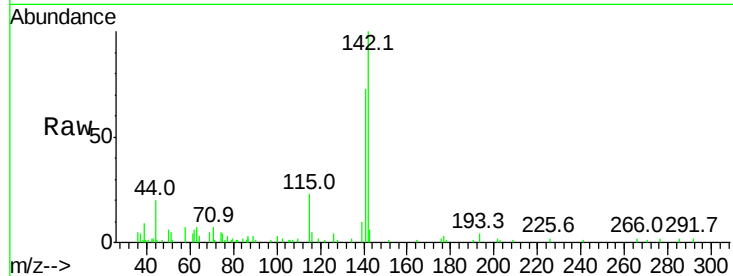




#80
Naphthalene, 2-methyl-
Concen: 0.270 ppbv
RT: 25.05 min Scan# 6924
Delta R.T. 0.00 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:	142	Resp:	39729
Ion	Ratio	Lower	Upper
142	100		
141	81.6	65.7	98.5
115	39.9	30.9	46.3



#81
1,2,4-Trichlorobenzene
Concen: 0.575 ppbv
RT: 22.04 min Scan# 5987
Delta R.T. 0.00 min
Lab File: VL034300.D
Acq: 16 Oct 2019 14:11

Tgt Ion:	180	Resp:	100898
Ion	Ratio	Lower	Upper
180	100		
182	155.6	77.8	116.8#
184	48.4	25.4	38.2#

